

SERVICE MANUAL

AE-2 CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-X2561A	RM-830	Italian	SCC-F18H-A	KV-X2563E	RM-830	Spanish	SCC-F33H-A
KV-X2560B	RM-830	French	SCC-F32G-A	KV-X2561K	RM-830	OIRT	SCC-F72D-A
KV-X2561B	RM-830	French	SCC-F71D-A	KV-X2562U	RM-830	UK	SCC-F25G-A
KV-X2561D	RM-830	AEP	SCC-F26H-A				



TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television system	Stereo system	Channel coverage	Color system
Italian		B/G/H, D/K	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF:21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
French		B/G/H, D/K L, I	GERMAN Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69 I UHF:B21-B69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
AEP		B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
Spanish		B/G/H, D/K	GERMAN/NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
OIRT		B/G/H, D/K	GERMAN Stereo	B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 D/K VHF:R1-R12 UHF:R21-R60	PAL, SECAM NTSC 4.43, NTSC 3.58 (VIDEO IN)
UK		I	NICAM Stereo	UHF:B21-B69	PAL SECAM, NTSC 4.43 NTSC 3.58 (VIDEO IN)

MODEL	Italian	French	AEP	Spanish	OIRT	UK
Power consumption	96 Wh	108 Wh	108 Wh	107 Wh	108 Wh	151 Wh

Picture tube Hi-Black Trinitron
Approx. 63 cm
(Approx. 59 cm picture measured diagonally)
110° -deflection

【REAR】

- ① 1 21-pin Euro connector (CENELEC standard)
- Inputs for audio and video signals
 - inputs for RGB
 - outputs of TV video and audio signals
- ② 2/-② 2 21-pin Euro connector
 - inputs for audio and video signals
 - inputs for S video
 - outputs for audio and video signals (selectable)
- ③ 2, S video input
- ④ Audio inputs (L, R) -phono jacks
- ⑤ S video output - 4 pin DIN
- ⑥ Audio outputs - phono jacks
- ⑦ Audio outputs (Variable) - phono jacks

【FRONT】

- ① 3 Video input-phono jack
- ② Audio input-phono jacks
- ③ 3 S video input 4-pin DIN
- ④ Headphone jack : Stereo minijack

- Sound output 2×15 (RMS)
2×30 (Music)
- Power requirement 220-240 V
- Dimensions Approx.575 x 488 x 487 mm
- Weight Approx.37 kg
- Supplied accessories RM-830 Remote Commander (1)
IEC designation R 6 batteries (2)
- Other features NICAM, FASTTEXT


【RM-830】

- Remote control system infrared control
- Power requirements 3 V dc
2 batteries IEC designation R 6 (size AA)
- Dimensions Approx.65×225×21 mm (w/h/d)
- Weight Approx.157g (Not including Batteries)

Design and specifications are subject to change without notice.

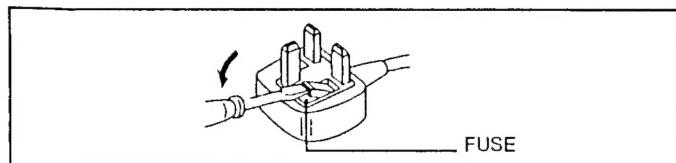
Model name Item	KV-X 2561 A	KV-X 2560 B KV-X 2561 B	KV-X 2561 D	KV-X 2563 E	KV-X 2561 K	KV-X 2562 U
Pal Comb	OFF	OFF	OFF	OFF	OFF	OFF
PiP	OFF	OFF	OFF	OFF	OFF	OFF
RGB Priority	ON	OFF	OFF	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON	ON	ON
Scart 4	OFF	OFF	OFF	OFF	OFF	OFF
Dyn. Convergence	OFF	OFF	OFF	OFF	OFF	OFF
Projector	OFF	OFF	OFF	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON	ON	OFF
Norm I	OFF	ON	OFF	OFF	OFF	ON
Norm D/K	ON	ON	ON	ON	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF	OFF	OFF
Norm SAT	OFF	OFF	OFF	OFF	OFF	OFF
Norm M	OFF	OFF	OFF	OFF	OFF	OFF
Language Preset	Italiano	Francais	Deutsch	None	English	English

Warning (UK Model only)

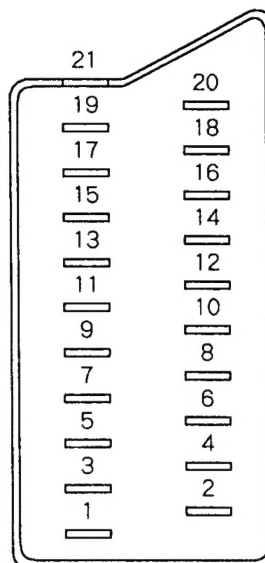
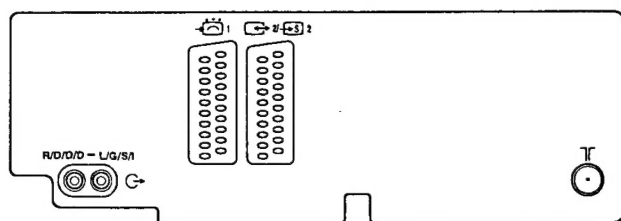
The flexible mains lead is supplied connected to a B.S. 1363 fused plug having a fuse of 5 amp capacity. Should the fuse need to be replaced, use 5 AMP FUSE approved by ASTA to BS 1362, ie. carries the  mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR YOUR SOCKET OUTLETS IN YOUR HOME. IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE SOCKET OUTLET.

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.



21 pin connector (1 2/4)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm *
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms *
7	○	●	Blue input	0.7 ± 3dB, 75ohms, positive
8	○	○	Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V ± 3dB, 75ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	-	Red input	0.7V ± 3dB, 75ohms, positive
	-	○	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	○	●	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
20	○	-	Video input	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
	-	○	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync : 0.3V (-3, +10dB)
21	○	○	Common ground (plug, shield)	

○ Connected ● unconnected (open) * at 20Hz - 20kHz

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CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND, IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET PAR UNE MARQUE Δ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIÉCES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

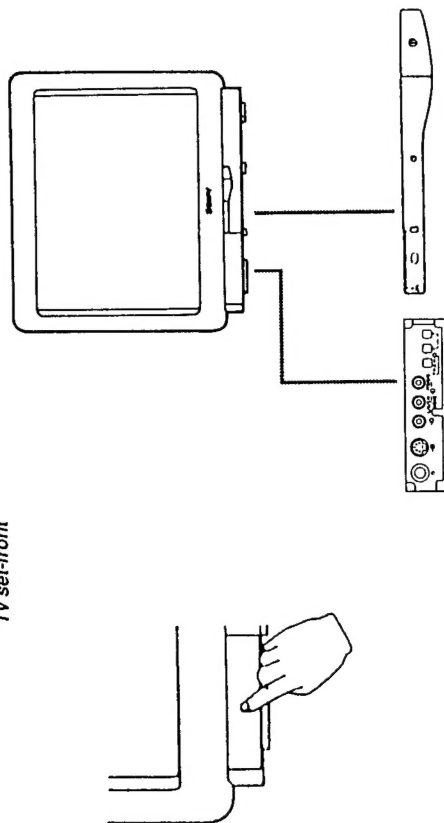
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

1-1. OVERVIEW

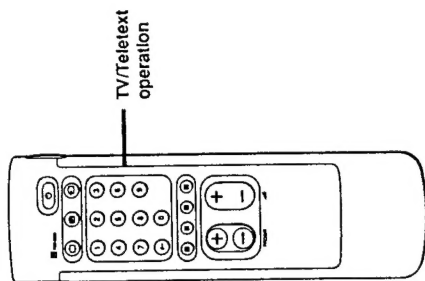
This section briefly describes the buttons and controls on the TV set and on the Remote Commander. For more information, refer to the pages given next to each description.

TV set-front



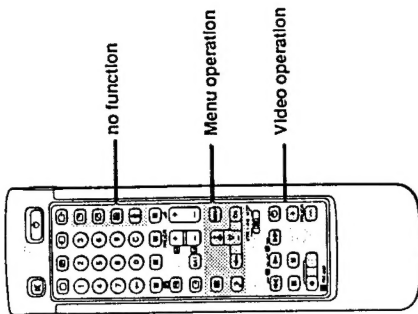
Symbol	Name	Refer to page
⏻	4.6 Main power switch	13
⏻	4.7 Standby indicator	13
A-CD-B	4.8 Stereo A/B indicators	15
🎧	4.9 Headphones jack	20
🎧, -🎧, -🎧	4.10 Input jacks (S video/video/audio)	20
🎧, -🎧, -🎧	4.11 Function selector (Programme/volume/input)	14
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Remote Commander RM-830



B) Simple side

A)Note
The SAT button does not operate with this TV.



C) Full-Function side

TV/Teletext operation

Symbol	Name	Refer to page
⏻	Muting on/off button	14
⏻	Standby button	13
⏻	TV power on/TV mode selector button	13
🎧	Teletext button	14
-🎧	Input mode selector	14
🎧	Output mode selector	21
1,2,3,4,5,6,7,8,9 and 0	Number buttons	13
-/-	Double-digit entering button	13
C	Direct channel entering button	10
Δ/+	Volume control button	13
PROGR +/-	Programme selectors	13
🎧	Teletext page access buttons	17
🎧	Picture adjustment button	15
🎧	Sound adjustment button	15
🎧	On-screen display button	14
🎧	Teletext hold button	17
🎧	Time display button	14
🎧	Fastext TOP-text buttons	17

Menu operation

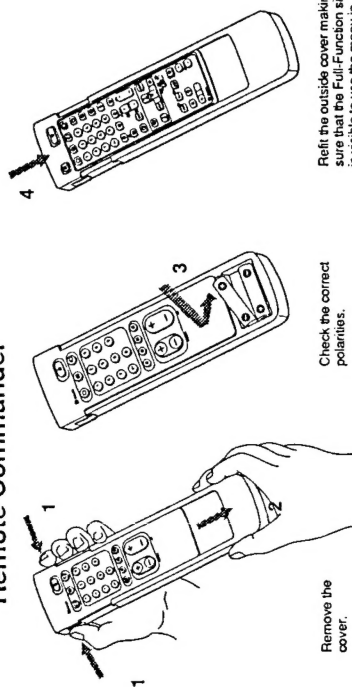
Symbol	Name	Refer to page
MENU	Menu on/off button	7
Δ+/-	Select buttons	7
OK	OK (confirming) button	7
←	Back button	7

Video operation

Symbol	Name	Refer to page
VTR1/2/3, MDP	Video equipment selector	22
▶▶▶▶▶▶▶▶▶▶	Video equipment operation buttons	22
PROGR +/-		

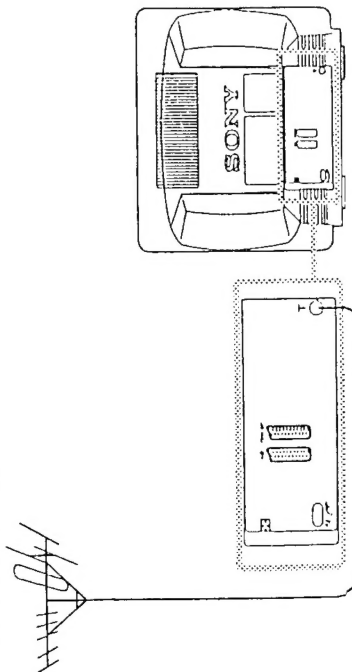
Note:
The buttons ⏻, 🔍, 🎧, 🎧 do not operate with this TV.

Getting Started



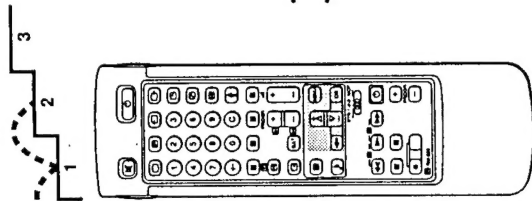
Refit the outside cover making sure that the Full-Function side is visible to use the menu in Step 3.

Connect the aerial



Fit an IEC aerial connector attached to 75-ohm coaxial cable (not supplied) to the T socket at the rear of the TV.

1-4. STEP 3 TUNING IN TO TV STATIONS



The automatic method is easier if you want to preset all receivable channels at once. Use the manual method if you only have a few channels and want to preset channels one by one. The manual method is also convenient for allocating programme numbers to various video input sources.

Check that the Full-Function side of the Remote Commander is visible.

Locate Menu operation buttons on the Remote Commander. They are shaded in the illustration at the left.

Choose a language

- 1 Depress **On the TV**. The TV will switch on. If the standby indicator on the TV is lit, press **□** or a number button on the Remote Commander.
- 2 Press **MENU**.
- 3 Select the language you want with **Δ** or **▽**, and press **OK**.



Display the Menu

Press the **↵** button.
The main menu appears (see Fig.2).
Now, choose one of the following methods
•Preset Channels automatically•
or
•Preset Channels manually•.

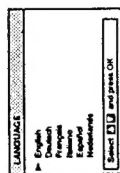


Fig. 1.

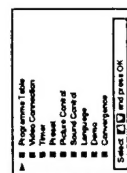


Fig. 2.



With this method, you can preset all receivable channels at once.

To stop automatic channel presetting Press Δ or ∇ and press OK.

Remote Commander.

Notes

- After presetting the channels automatically, you can check which channels are stored on which programme positions. For details, see «Using the Programme Table» on page 16.
- You can exchange the programme positions to have them appear on screen in the order you wish. For details, see «Exchanging Programme Positions» on page 10.

The automatic channel presetting starts. When presetting is finished, the PRESET menu reappears. All available channels are now stored on successive number buttons.

Preset channels automatically

- 1 Select «Preset» with Δ or ∇ and press OK. The PRESET menu appears. (See Fig. 3.)
- 2 Select «Auto Programme» with Δ or ∇ and press OK. The AUTO PROGRAMME menu appears. (See Fig. 4.)
- 3 Press OK. Press OK repeatedly until the first element of the «PROG» number is highlighted.
- 4 Select the programme (number button) from which you want to start presetting. Select the first element of the double-digit number with Δ or ∇ or the number buttons (e.g. For «04», select «0» here) and press OK. The second element of «PROG» will be highlighted.
- 5 Select the second element of the double-digit number with Δ or ∇ or the number buttons (e.g. For «04», select «4» here) (See Fig. 5.) and press OK.
- 6 The automatic channel presetting starts. When presetting is finished, the PRESET menu reappears. All available channels are now stored on successive number buttons.

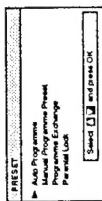


Fig. 3.



Fig. 4.

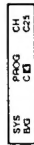


Fig. 5.



Use this method if there are only a few channels in your area to preset or if you want to preset channels one by one. You may also allocate programme numbers to various video input sources.

If you have made a mistake Press Δ or ∇ to go back to the previous position. To go back to main menu Keep pressing Δ . To go back to the normal TV picture Press MENU.

Preset channels manually

- 1 Select «Preset» with Δ or ∇ and press OK. The PRESET menu appears. (See Fig. 6.)
- 2 Select «Manual Programme Preset» with Δ or ∇ and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 7.)

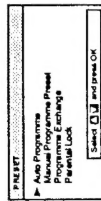


Fig. 6.

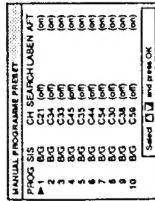


Fig. 7.

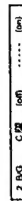
To tune in a channel by frequency After selecting Fin step 6, enter three digits using the number buttons. Press OK.

- 3 Using Δ or ∇ , select the programme position (number button) to which you want to preset a channel, and press OK.
- 4 Keep pressing ∇ to select programme numbers higher than 10.
- 5 Select, if necessary, a video input source (EXT) with Δ or ∇ . Then press OK. The first element of the CH position will be highlighted. (See Fig. 8.)
- 6 Using Δ or ∇ , select C (to preset a regular channel), or F (to tune in by frequency) and press OK. The first element of the «CH» number will be highlighted. If you have selected EXT in step 4, select the video input source with Δ or ∇ . (See Fig. 9).

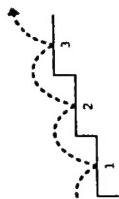
There are two ways to preset channels. If you know the channel number, go to step «7 Manual», or if you don't know the channel number, go to step «7 Search».

7 Manual

- a Select the first element of the «CH» number with Δ or ∇ or the number buttons and press OK. The second element of the «CH» number will be highlighted.
- b Select the second element of the number with Δ or ∇ or the number buttons. The selected number appears. (See Fig. 10.)
- c Press OK. The «SEARCH» position is highlighted and the selected channel is now stored. (See Fig. 11.)
- d Press OK until the cursor appears by the next programme position.
- e Repeat steps 3 to 7 to preset other channels.



1-5. ADDITIONAL PRESETTING FUNCTIONS



This section shows you additional presetting functions such as exchanging or skipping programme positions, captioning a station name, manual line-tuning, and using the parental lock.

Before you begin

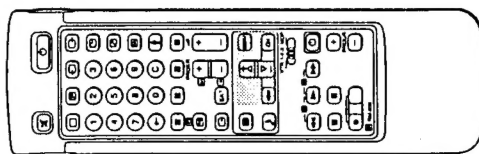
- Check that the Full Function side of the Remote Commander is visible.
- Locate the Menu operation buttons.

PROGRAMME EXCHANGE

Exchanging Programme Positions

With this function, you can exchange the programme positions to a preferable order.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select "Programme Exchange" with Δ + or ∇ - and press OK. The PROGRAMME EXCHANGE menu appears. (See Fig. 14.)
- 4 Using Δ + or ∇ -, select the programme position you want to exchange with another and press OK. The colour of the selected position changes. (See Fig. 15.)
- 5 Using Δ + or ∇ -, select the programme position to be exchanged and press OK. Now the two programme positions have been exchanged. (See Fig. 16.)
- 6 Repeat steps 4 and 5 to exchange other programme positions.



PROG	CH	NAME	PROG	CH	NAME
1	AVT	VSE	1	C25	CH
2	C22	BBC1	2	C22	BBC1
3	AT	BBC2	3	AT	BBC2
4	...	...	4	...	...
5	...	...	5	...	...
6	...	...	6	...	...
7	...	...	7	...	...

Fig. 14.

PROG	CH	NAME	PROG	CH	NAME
1	AVT	VSE	1	C25	CH
2	C22	BBC1	2	C22	BBC1
3	AT	BBC2	3	AT	BBC2
4	...	...	4	...	...
5	...	...	5	...	...
6	...	...	6	...	...
7	...	...	7	...	...

Fig. 15.

PROG	CH	NAME	PROG	CH	NAME
1	AVT	VSE	1	C25	CH
2	C22	BBC1	2	C22	BBC1
3	AT	BBC2	3	AT	BBC2
4	...	...	4	...	...
5	...	...	5	...	...
6	...	...	6	...	...
7	...	...	7	...	...

Fig. 16.

Tuning in a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset. Use the buttons on the Full-Function side of the Remote Commander.

- 1 Press C on the Remote Commander. For cable channels, press C twice. The indication "C" (-S- for cable channels) appears on the screen.
- 2 Enter the double-digit channel number using the number buttons (e.g. for channel 4, first press 0, then 4). The channel appears. However, the channel will not be stored.

For higher programme positions
The display scrolls automatically.

If you have made a mistake
Press \leftarrow to go back to the previous position

To go back to main menu
Keep pressing \leftarrow .

To go back to the normal TV picture
Press MENU.

MANUAL PROGRAMME PRESET

Skipping Programme Positions

You can skip unused programme positions when selecting programmes with the PROG Δ +/- buttons. However, the skipped programmes may still be called up when you use the number buttons.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with Δ + or ∇ - and press OK. The PRESET menu appears.

- 3 Select "Manual Programme Preset" with Δ + or ∇ - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 17.)

- 4 Using Δ + or ∇ -, select the programme position which you want to skip and press OK. The -SYS- position changes colour.

- 5 Press Δ + or ∇ - until "----" appears in the SYSTEM position. (See Fig. 18.)

- 6 Press OK. (See Fig. 19.) When you select programmes using the PROG Δ +/- buttons, the programme position will be skipped.

- 7 Repeat steps 4 to 6 to skip other programme positions.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 17.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 18.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 19.

Captioning a Station Name

You can "name" a channel or an input video source using up to five characters (letters or numbers) to be displayed on the TV screen (e.g. BBC1). Using this function, you can easily identify which channel or video source you are watching.

- 1 Press MENU to display the main menu.
- 2 Select "Preset" with Δ + or ∇ - and press OK. The PRESET menu appears.
- 3 Select "Manual Programme Preset" with Δ + or ∇ - and press OK. The MANUAL PROGRAMME PRESET menu appears. (See Fig. 20.)

- 4 Using Δ + or ∇ -, select the programme position you want to caption and press OK repeatedly until the first element of the LABEL position is highlighted.

- 5 Select a letter or number with Δ + or ∇ - and press OK. The next element will be highlighted.

- 6 Select other characters in the same way. If you want to leave an element blank, select - and press OK. (See Fig. 21.)

- 7 After selecting all the characters, press OK repeatedly until the cursor appears by the next programme position (at the left margin). Now the caption you chose is stored. (See Fig. 22.)

- 8 Repeat steps 5 and 6 to caption names for other channels.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 20.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 21.

PROG	SYS	CH	SEARCH	LABEL	AVT
1	---	C21	(off)	---	(off)
2	---	C22	(off)	---	(off)
3	---	C23	(off)	---	(off)
4	---	C24	(off)	---	(off)
5	---	C25	(off)	---	(off)
6	---	C26	(off)	---	(off)
7	---	C27	(off)	---	(off)
8	---	C28	(off)	---	(off)
9	---	C29	(off)	---	(off)
10	---	C30	(off)	---	(off)

Fig. 22.

Manual Fine-Tuning

Normally, the AFT (automatic fine-tuning) is already operating. However, if the picture is distorted, you can use the manual fine tuning function to obtain better picture reception.

- 1 Press MENU to display the main menu.
- 2 Select -Preset- with Δ or ∇ and press OK.
- 3 Select -Manual Programme Preset- with Δ or ∇ and press OK.

The MANUAL PROGRAMME PRESET menu appears. (See Fig. 23.)

- 4 Using Δ or ∇ , select the programme position corresponding to the channel which you want to manually fine-tune, and press OK repeatedly until the AFT position changes colour.

- 5 Fine-tune the channel with Δ or ∇ so that you get the best TV reception. As you press the cursor buttons, the frequency changes from -15 to +15. (See Fig. 24.)

- 6 After fine tuning, press OK.

The cursor appears beside the next programme position (at the left margin). (See Fig. 25.) Now the fine-tuned level is stored.

- 7 Repeat steps 4 to 6 to fine-tune other channels.

MANUAL PROGRAMME PRESET

Manually fine tuned channels will be identified by Δ or ∇ on the on screen indication (See page 15)

To reactivate AFT (automatic fine tuning), Repeat from the beginning and select -OK- in step 5.

PARENTAL LOCK

If you try to select a programme that has been blocked The message -LOCKED- appears on the blank TV screen.

Parental Lock

You can prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press MENU to display the main menu.
- 2 Select -Preset- with Δ or ∇ and press OK.
- 3 Select -Parental Lock- with Δ or ∇ and press OK.
- 4 The PARENTAL LOCK menu appears. (See Fig. 26.) Using Δ or ∇ , select the programme position you want to block and press OK.
- 5 The CH and LABEL change colour indicating that this programme is now blocked. (See Fig. 27.) Repeat step 4 to block other programme positions.

Cancelling blocking

- 1 On the PARENTAL LOCK menu, select the programme position you want to unblock with Δ or ∇ .
 - 2 Press OK.
- The selected PROG number, CH and LABEL change colour to normal colour indicating that the blocking has been cancelled.

1-6. WATCHING THE TV

This section explains the basic functions you use while watching TV. Most of the operations can be done using the simple side of the Remote Commander.

Switching the TV on and off

Switching on

Depress \odot on the TV.

Switching off temporarily

Press \odot on the Remote Commander.

The TV enters standby mode and the standby indicator on the front of the TV lights up.

To switch on again

Press \odot , PROGR +/-, or one of the number buttons on the Remote Commander.

Switching off completely

Depress \odot on the TV.

Selecting TV Programmes

Press PROGR +/- or press the number buttons.

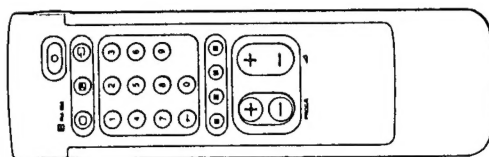
To select a double-digit number

Press +/-, then the numbers.

For example, if you want to choose 23, press +/-, 2, and 3.

Adjusting the Volume

Press Δ +/-.



If no picture appears when you depress \odot on the TV and if the standby indicator on the TV is lit, the TV is in standby mode. Press \odot or one of the number buttons to switch it on.

PROG	SYS	CH	SEARCH	LABEL	AFT
1	1	C21	(off)	(off)	(on)
2	2	C22	(off)	(off)	(on)
3	3	C23	(off)	(off)	(on)
4	4	C24	(off)	(off)	(on)
5	5	C25	(off)	(off)	(on)
6	6	C26	(off)	(off)	(on)
7	7	C27	(off)	(off)	(on)
8	8	C28	(off)	(off)	(on)
9	9	C29	(off)	(off)	(on)
10	10	C30	(off)	(off)	(on)

Fig. 23.

2	2	C25	(on)	(on)	(on)
---	---	-----	------	------	------

Fig. 24.

5	5	C25	(on)	(on)	(on)
---	---	-----	------	------	------

Fig. 25.

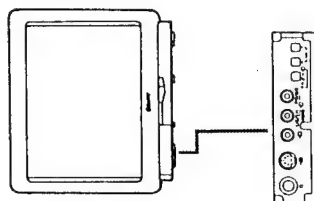
PROG	SYS	LABEL	PROG	CH	LABEL
1	1	C21	8	C18	(off)
2	2	C22	9	C19	(off)
3	3	C23	10	C20	(off)
4	4	C24	11	C21	(off)
5	5	C25	12	C22	(off)
6	6	C26	13	C23	(off)
7	7	C27	14	C24	(off)

Fig. 26.

PROG	CH	LABEL	PROG	CH	LABEL
1	C21	8	C18	(off)	(off)
2	C22	9	C19	(off)	(off)
3	C23	10	C20	(off)	(off)
4	C24	11	C21	(off)	(off)
5	C25	12	C22	(off)	(off)
6	C26	13	C23	(off)	(off)
7	C27	14	C24	(off)	(off)

Fig. 27.

1-7. ADJUSTING AND SETTING THE TV USING THE MENU



Operating the TV Using the Buttons on the TV

- With the buttons on the TV, you can select programmes, adjust the volume, and select video input sources.
- Press the **PAGE** button repeatedly until the programme number, **Δ** (for volume), or **◀▶** (for video input picture) appears. Then adjust with the **Δ** buttons.
 - Press **Δ** buttons to switch on the TV from the standby mode.
 - Press **Δ** simultaneously to reset picture and sound controls to the factory preset level (RESET function).

Watching Teletext or Video Input

Watching teletext

- Press **Δ** to view the teletext.
- Press three number buttons to select a page.
- Press one of the coloured buttons for lastext or TOP-Text operation.
- Press **Δ** (PAGE +) or **◀** (PAGE -) for the next or preceeding page.
- To go back to the normal TV picture, press **Δ**.

Watching a video input picture

- Press **Δ** repeatedly until the desired video input appears. To go back to the normal TV picture, press **Δ**.

More Convenient Functions

Use the Full-Function side of the Remote Commander.

Displaying the on screen indications

- Press **Δ** once to display all the indications. They will disappear after some seconds.
- Press **Δ** twice to have the programme number and label stay on screen. Press twice again to make the indications disappear.

Muting the sound

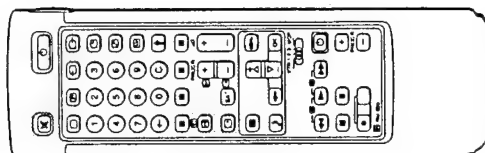
- Press **Δ**.
To resume normal sound, press **Δ** again.

Displaying the time

- Press **Δ**. This function is available only when teletext is broadcast.
To make the time display disappear, press **Δ** again.

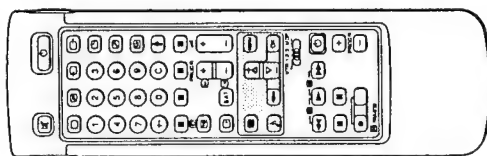
For details of the teletext operation, refer to page 17.

For details of the video input picture, refer to page 21.



PICTURE CONTROL

SOUND CONTROL



If you have made a mistake
Press **Δ** to go back to the previous position.
To go back to the main menu
Keep pressing **Δ**.
To go back to the normal TV picture
Press MENU.

Note
HUE is only available for NTSC colour systems.
Note on LINE OUT
The audio level and the dual sound mode output from the **Δ** jack on the rear correspond to the Headphone VOLUME and DUAL SOUND settings.

When watching a video input picture
You can select DUAL SOUND to change the sound.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste. In addition, you can change the aspect ratio of the TV display for wide screen effect or set the resolution to obtain a higher quality picture. You can also select dual sound (bilingual) programmes when available or adjust the sound for listening with the headphones.

- 1 Press **Δ** (for picture) or **Δ** (for sound) on the remote Commander, or
Press MENU and select **Picture Control** or **Sound Control**, then press OK.
The PICTURE CONTROL or SOUND CONTROL menu appears. (See Fig. 28 or Fig. 29.)
- 2 Using **Δ** or **◀▶**, select the item you want to adjust and press OK. The selected item changes colour. (See Fig. 30.)
- 3 Adjust the setting with **Δ** or **◀▶** and press OK. The cursor appears beside the next item (at the left margin). (See Fig. 31.)
For the effect of each control, see the table below.
- 4 Repeat steps 2 and 3 to adjust other items.

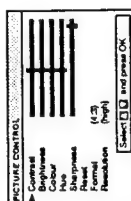


Fig. 28.

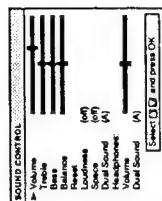


Fig. 29.



Fig. 30.

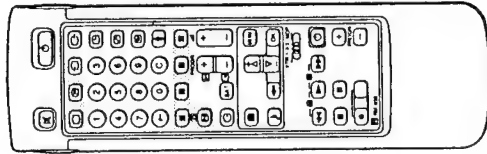


Fig. 31.

Effect of each control

PICTURE CONTROL	Effect
Contrast	Less ——— More
Brightness	Darker ——— Brighter
Colour	Less ——— More
Hue	Greenish ——— Reddish
Sharpness	Softer ——— Sharper
Reset	Resets picture to the factory preset levels.
Format	4 : 3 : Normal 16 : 9 : Wide screen effect
Resolution	Normal high : Obtain a higher quality picture













SOUND CONTROL	Effect
Volume	Less ——— More
Treble	Less ——— More
Bass	Less ——— More
Balance	More left ——— More right
Reset	Resets sound to the factory preset levels.
Loudness	off: Normal on: Obtain acoustic sound effect.
Space	off: Normal on: Obtain acoustic sound effect.
Dual Sound	A: left channel B: right channel Stereo mono The selected mode of the A-CD-B Indicator on the TV lights up (for NICAM broadcasts see next page)
Headphones :	
Volume	Less ——— More
Dual Sound	A: left channel B: right channel stereo mono



Selecting Nicam Broadcasts*

This Sony TV has been designed to select Nicam broadcasts when available. Whenever a Nicam broadcast is received, "NICAM" appears briefly on the screen. When the Nicam programme ends, or you switch channels to one without Nicam, the A-CD-B indicators, on the TV will switch off.

Nicam programmes can be broadcast in two ways. You may select the sound you want to hear in either of these by first following the instructions explained on page 16.

Service Being Broadcast	Action	Effect	Indication on the TV A-CD-B
Stereo	Press Δ or ∇	Stereo Nicam (Mono 2-Channel) mono	  
Press Δ or ∇ - again to return to stereo Nicam (mono 2-Channel)			  
Channel A Nicam	Press Δ or ∇	Channel B Nicam mono	  
Press Δ or ∇ - again to return to channel A Nicam			  

* Depending on availability of service.

Using the Programme Table

On this table, you can see which channel is preset to which programme position. You can also select programmes using this table.

From the main menu, select "Programme Table" with Δ or ∇ and press OK.

The PROGRAMME TABLE menu appears. (See Fig. 32.)

To scroll to higher programme numbers, press Δ .

To select a programme using this menu

Select the programme number with Δ or ∇ and press OK. The selected programme appears.

Using the Sleep Timer

You can select a time period after which the TV automatically switches into standby mode.

- From the main menu, select "Timer" with Δ or ∇ and press OK. The TIMER menu appears. (See Fig. 33.)
- Press OK. The time period option changes colour.
- Select the time period with Δ or ∇ . The time period (in minutes) changes as follows:
10 \rightarrow 20 \rightarrow 30 \rightarrow 40 \rightarrow 50 \rightarrow 60 \rightarrow 70 \rightarrow 80 \rightarrow 90
OFF
- After selecting the time period, press OK. The cursor moves back to the left margin and the timer starts counting. One minute before the TV switches into standby mode, a message is displayed on the screen.

PROGRAMME TABLE

To go back to the normal TV picture Press MENU.

TIMER

To switch off the timer Select "OFF" in step 3.

To check the remaining time Press OK.

Note
Teletext errors may occur if the broadcasting signals are weak.

With the simple side of the Remote Commander

You can switch teletext on and off, operate Fastext, and directly select page numbers.

Note
Fastext operation is only possible, if the TV station broadcasts Fastext signals.

TV stations broadcast an information service called Teletext via the TV channels. Teletext service allows you to receive various information pages such as weather reports or news at any time you want. For advanced teletext operation, use the buttons on the Full-Function side of the Remote Commander.

Direct Access Functions

Switching Teletext on and off

- Select the TV channel which carries the teletext broadcast you want to watch.
- Press F to switch on teletext. A teletext page will be displayed (usually the index page). If there is no teletext broadcast, P100 is displayed on the information line at the top of the screen. To switch teletext off Press F .

Selecting a teletext page

With direct page selection

Use the number buttons to input the three digits of the chosen page number. If you have made a mistake, type in any three digits. Then re-enter the correct page number. If the page counter keeps searching, the page number might not be available.

With page-catching

- Select a teletext page with a page overview (e.g. index page).
- Press F twice. "Page catching" will be displayed on the information line. The last digit of the first displayed page number flashes.

Using Δ or ∇ , select the desired page and press OK. The requested page will appear in a few seconds.

Accessing next or preceding page

Press F (PAGE+) or F (PAGE-).

The next or preceding page appears.

Superimposing the teletext display on the TV programme

- Press F once in teletext mode or twice in TV mode.
- Press F again to resume normal teletext reception.

Preventing a teletext page from being updated

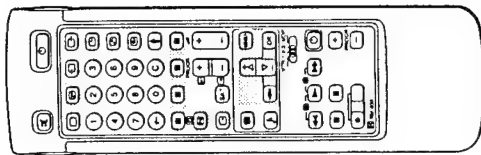
- Press F (HOLD). The HOLD symbol "H" is displayed on the information line.
- Press F to resume normal teletext reception.

Using Fastext

With Fastext you can access pages with one key stroke.

When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons on the Remote Commander.

Press the corresponding coloured button on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed after a few seconds.



Note
Some of the features may not be available depending on the Teletext service.

Note on SUBTITLES
If the subtitles are not broadcast on page 888, please select the subtitle page using the number buttons.

To cancel the request
Select «OFF» for the TIME PAGE setting

Using the Teletext Menu

This TV is provided with a menu-guided teletext system. When teletext is switched in, you can use the menu buttons to operate the teletext menu. Select the teletext menu functions in the following way:

- 1 Press MENU. The menu will be superimposed on the teletext display. (See Fig. 34.)
- 2 Using Δ + or ∇ -, select the teletext function you want and press OK. (See Fig. 35.)

USER PAGES/PRESET USER PAGES

See page 19 for information about presetting and operating the user pages.

INDEX

The index will give you an overview of the contents of the teletext and the page numbers.

TOP/BOTTOM/FULL

For convenient reading of a teletext page, you can enlarge the teletext display. After having selected the function, an information line TOP/BOTTOM/FULL will be displayed. (See Fig. 36.)

Press Δ + for «Top» to enlarge the upper half, ∇ - for «Bottom» to enlarge the lower one and OK for «Full» to resume the normal size.

Press \odot to resume normal teletext reception.

TEXT CLEAR

After having selected the function, you can watch a TV programme while waiting for a requested teletext page to be captured (The symbol change colour.) (See page Fig. 37)

Press \odot to view the captured page.

SUBTITLES

Your teletext service will inform you if a TV programme is subtitled. After having selected the function the subtitles will be displayed.

REVEAL

Sometimes Pages contain concealed information, such as answers to a quiz. The reveal option lets you disclose the information. After having selected the function, an information line «REVEAL ON/OFF» will be displayed. (See Fig. 38.)

Using Δ + or ∇ -, select ON to reveal the information of OFF to conceal it again.

Press \odot to resume normal teletext reception.

TIME PAGE

This function is not available.

If two broadcasting stations use the same Teletext one bank to 2 different programme positions.

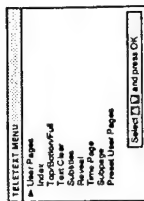


Fig. 34.

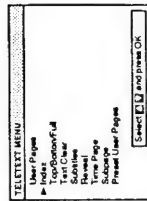


Fig. 35.

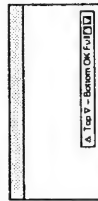


Fig. 36.



Fig. 37.

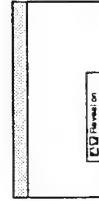


Fig. 38.

SUBPAGE

You may want to select a particular teletext page from several subpages which are related automatically. If you want to select one subpage, follow the operations below.

Using Δ + or ∇ -, select the SUBPAGE setting and press OK.

To select the desired subpage, enter four digits using PAGE Δ - or the number buttons (e.g. enter 0002 for the second page of a sequence).

User Page Bank System

You can store up to 30 pages in the «Teletext page bank system». In this way you have quick access to the pages you watch frequently.

Storing pages

There are 5 «banks» (A to E) for 5 teletext stations. In each bank you can store 6 preferred pages (P1 to P6).

1 Press \odot (if Teletext is not on already) and MENU to show the TELETEXT MENU display.

2 Select PRESET USER PAGES with Δ + or ∇ - and press OK.

3 Select the desired bank with Δ + or ∇ - and press OK. The cursor will go to the first position (P1) of the preferred pages.

4 Input the three digits of your first preferred page with the number buttons and press OK.

The cursor will go to the second position.

5 Repeat step 4 for the other 5 page numbers you want to preset. If you do not want to preset all 6 page numbers available, press OK without inserting any number.

After having finished the presetting press OK repeatedly until the cursor appears besides the next bank at the left margin.

6 Select «Allocate Bank» with Δ + or ∇ - and press OK.

7 Select the programme position for which you have preset pages with Δ + or ∇ - and press OK. (See Fig. 39.)

8 Select the desired bank with Δ + or ∇ - (Banks A to E are available) and press OK.

9 Repeat steps 3 to 8 for the other 4 banks available.

Displaying User Pages.

- 1 Select MENU.
- 2 Select USER PAGES with Δ + or ∇ - and press OK. A table of the stored preferred pages will be displayed. (See Fig. 40.)
- 3 Select the desired page with Δ + or ∇ - and press OK. The page will be displayed after some seconds.

PRESET USER PAGES									
BANK	P1	P2	P3	P4	P5	P6			
A	200	255	454	200	179				
B	200	130	301	303	550	345			
C	100	220	300	444					
D	124	321	255						
E	400	234	240	118	127				
ALLOCATE BANK									
PROG LABEL BANK									
00	YHS	-	04	MIV	D				
01	BBC1	A	05	SKY	B				
02	BBC2	C	06	ITV	C				

Select and press OK

Fig. 39.


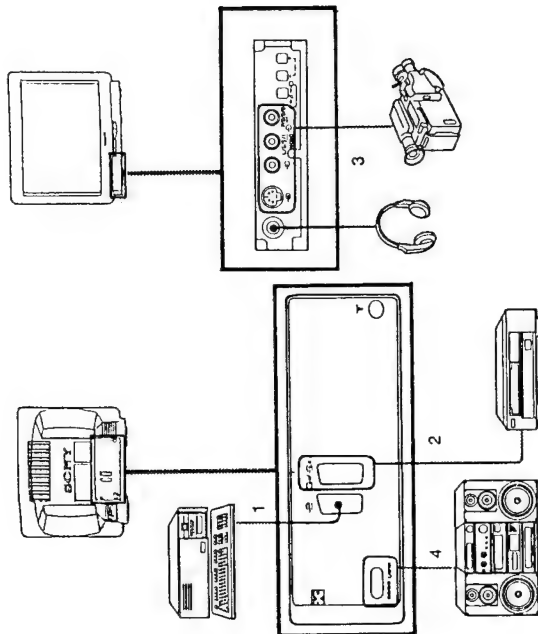
USER PAGES									
▶	PAGE 300								
	PAGE 200								
	PAGE 200								
	PAGE 500								
	PAGE 234								
	PAGE 150								
Select  and press OK									

Fig. 40.

Connecting Optional Equipment

You can connect optional audio-video equipment to this TV such as a VTRs, video disc player, and stereo system.



To connect a VTR using the Y terminal
Connect the serial output of the VTR to the aerial terminal "Y" of the TV.

If the picture or the sound is distorted
Move the VTR away from the TV.

S video Input(Y/C Input)
Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.

Separating the Y and C signals prevents
them from interfering with one another, and therefore improves picture quality (especially luminance).

This TV is equipped with 2 S Video input jacks through which these separated signals can be input directly.

When connecting a monaural VTR
Connect only the white jack to both the TV and VTR.

Acceptable input signal	Available output signal
1 Normal audio/video and RGB signal	Video/audio from TV tuner
2 Normal audio/video and S video signal	Video/audio from selected source
3 Normal audio/video and S video signal	No outputs
4 No inputs	Audio signal (variable)

Selecting input and output

This section explains how to view the video input picture (of a video source connected to your TV), and how to select the output signal using direct access buttons or the menu system.

Selecting Input

Press **↵** repeatedly to select the input source.

The symbol of the selected input source will appear.

To go back to the normal TV picture

Press **0**.

Input modes

Symbol	Input signal
1	Audio/video input through the 1 connector
2	RGB input through the 2 connector
2	Audio/video input through the 2 connector
2	S video input through the 2 connector
3	Audio/video input through 3 and 3 on the front
3	S video input through the 3 connectors on the front (4-pin connector)

You can also select the input mode using the **↵** and **↵** buttons on the TV. In this case, first select **↵**, and then press **↵** buttons to select the input.

Selecting the output

The **2** connector outputs the source input from the other connectors.

Press **2** repeatedly to select the output.

The symbol of the selected output source appears.

Output modes

Symbol	Output signal
1	The audio/video signal from the 1 connector
2	The audio/video signal from the 2 connector
2	The audio/S video signal from the 2 connector
3	The audio/video signal from the 3 and 3 connectors
3	The audio/S video signal from the 3 and 3 connectors
TV	The audio/video signal from the TV aerial terminal

1-10. FOR YOUR INFORMATION

Troubleshooting

Here are some simple solutions to some problems which may affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	<ul style="list-style-type: none"> • Plug in the TV in. • Press ⏻ on the TV. (If ⏻ indicator is on, press ⏻ or a programme number on the Remote Commander). • Check the aerial connection. • Check if the selected video source is on. • Turn the TV off for 3 or 4 seconds and then turn it on again using ⏻.
Poor or no picture (screen is dark), but good sound	<ul style="list-style-type: none"> • Press ⏻ to enter the PICTURE CONTROL menu and adjust the "Brightness", "Contrast" and "Colour".
Good picture but no sound	<ul style="list-style-type: none"> • Press ⏻. • Check loudspeakers connection. • If ⏻ is displayed on the screen, press ⏻.
No colour for colour programmes	25.13 • Press ⏻ to enter the PICTURE CONTROL menu, select "Reset", then press OK.
Remote Commander does not function	25.15 • Replace batteries.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

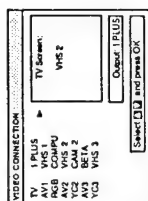


Fig. 41.

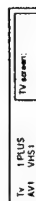


Fig. 42.



Fig. 43.

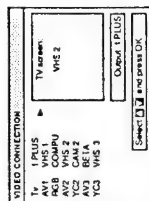


Fig. 44.

Checking and selecting the input and output sources using the menu

You can display the menu to see which input sources are selected for the TV screen, and which output source is selected. You can also select them on the menu display.

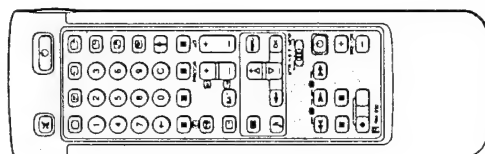
- 1 Select "Video Connection" with **⏻** or **⏻** and press OK. The VIDEO CONNECTION menu appears. (See Fig. 41.) You can see which source is selected for the TV input and for the output. If you want to select the input and output on this menu, go on to the next step.
- 2 Select TV screen (input source for the TV screen), or Output (output source) with **⏻** or **⏻** and press OK. One of the source items changes colour. (See Fig. 42.)
- 3 Select the desired source with **⏻** or **⏻**. (See Fig. 43.) For details about each source, see the table on page 21.
- 4 Press OK. The selected source is confirmed, and the cursor appears. (See Fig. 44.)
- 5 Repeat steps 2 to 4 to select the source for other inputs or outputs.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most of Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VTRs or video disc players.

Tuning the Remote Commander to the equipment

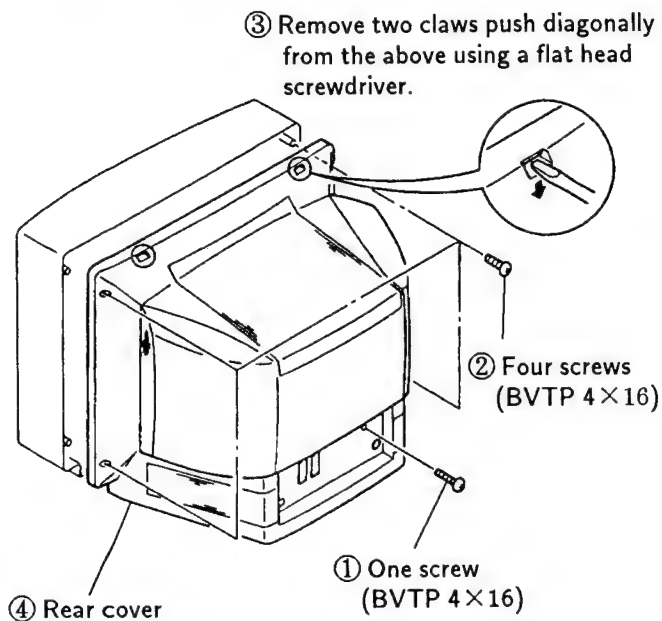
- 1 Set the VTR 1/2/3 MDP selector according to the equipment you want to control:
 VTR 1: Beta or ED Beta VTR
 VTR 2: 8 mm VTR
 VTR 3: VHS VTR
 MDP : Video disc player
- 2 Use the buttons indicated in the illustration to operate the additional equipment.
 If your video equipment is furnished with a COMMAND MODE selector, set this selector to the same position as the VTR 1/2/3 MDP selector on the TV Remote Commander.
 If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.



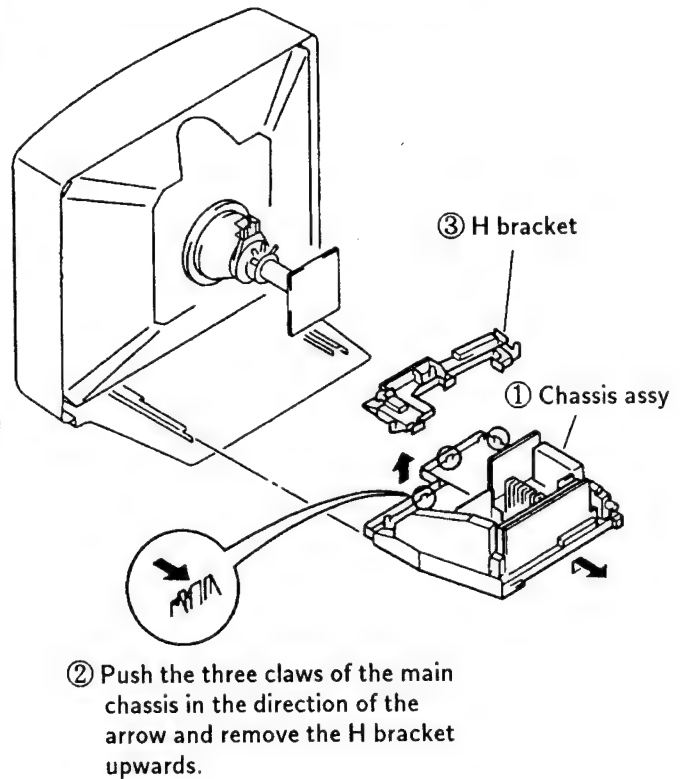
When recording when you use the **⏻** (Record/Output) button, make sure to press this button and the one to the right of it simultaneously.

SECTION 2 DISASSEMBLY

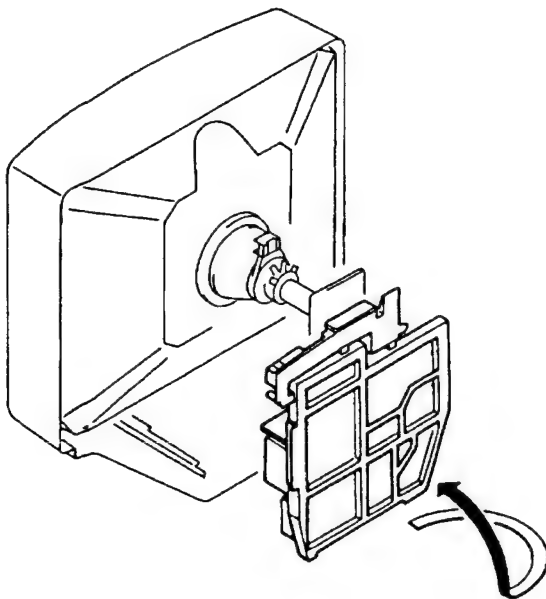
2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSY REMOVAL

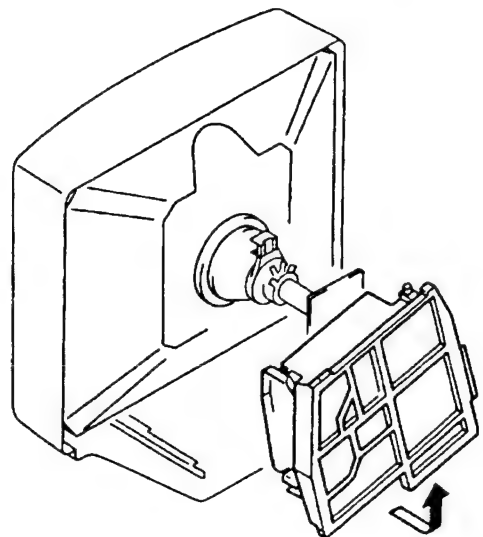


2-3. SERVICE POSITION (1)

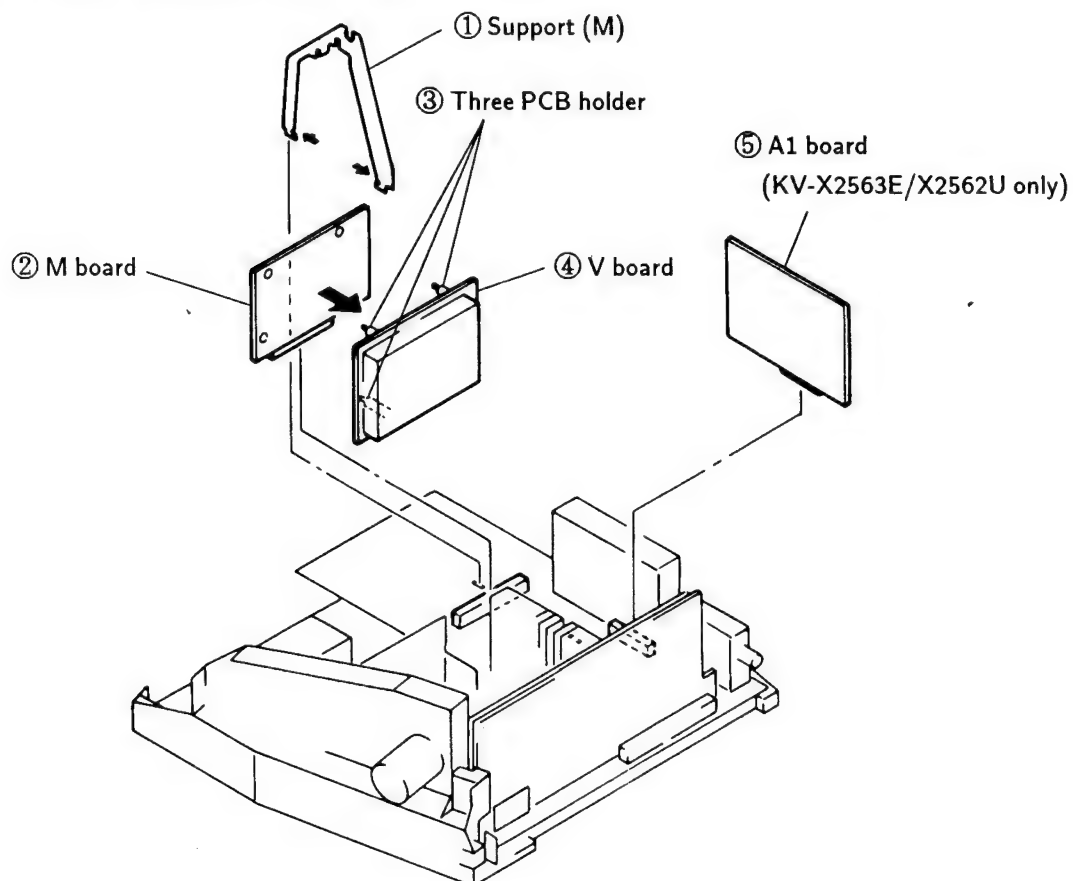


SERVICE POSITION (2)

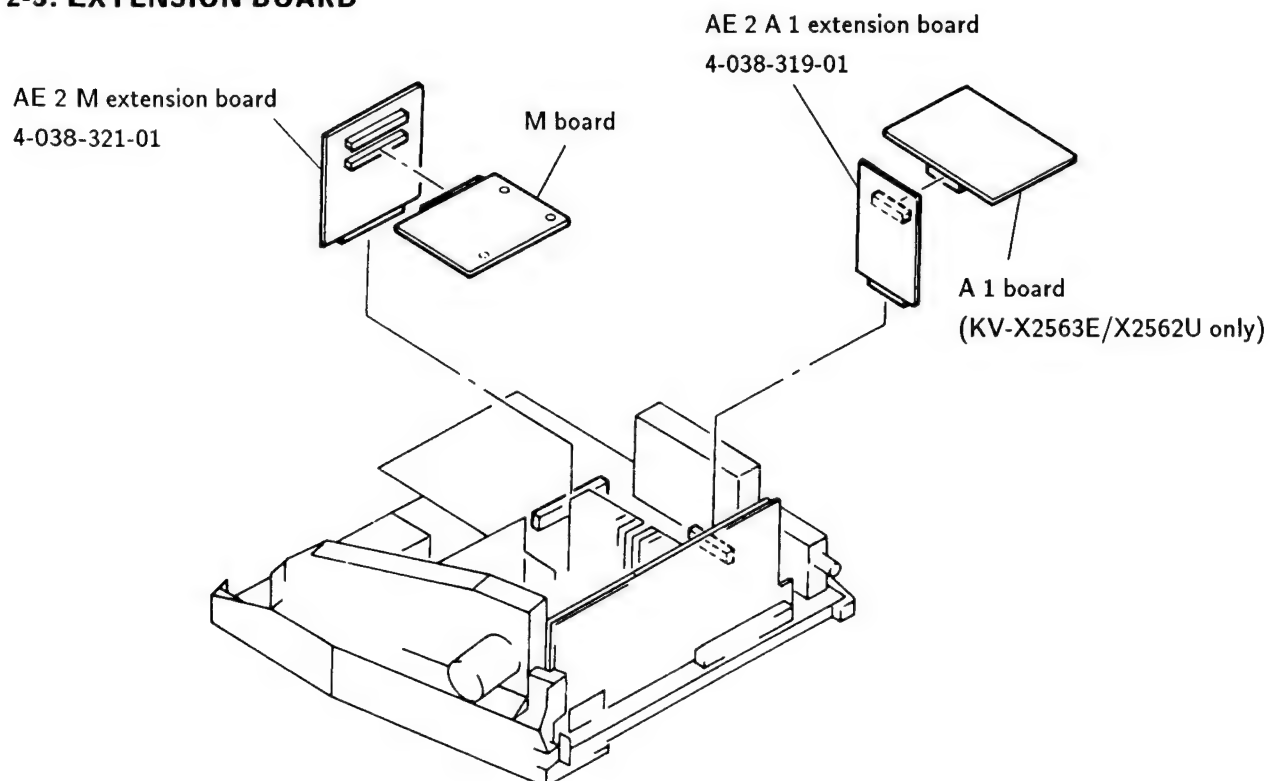
※ Remove the H bracket from the chassis assy and then perform the following servicing.
(Refer to 2-2. CHASSIS ASSY REMOVAL)



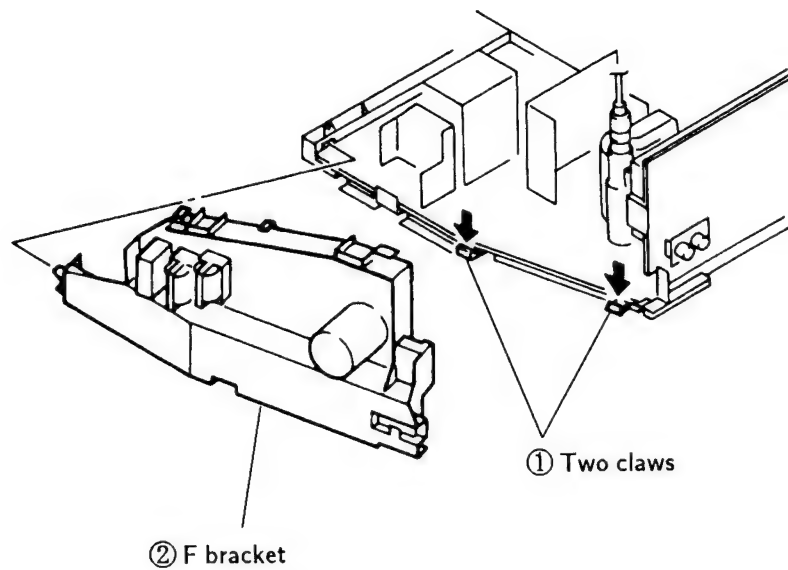
2-4. M, V AND A1 BOARDS REMOVAL



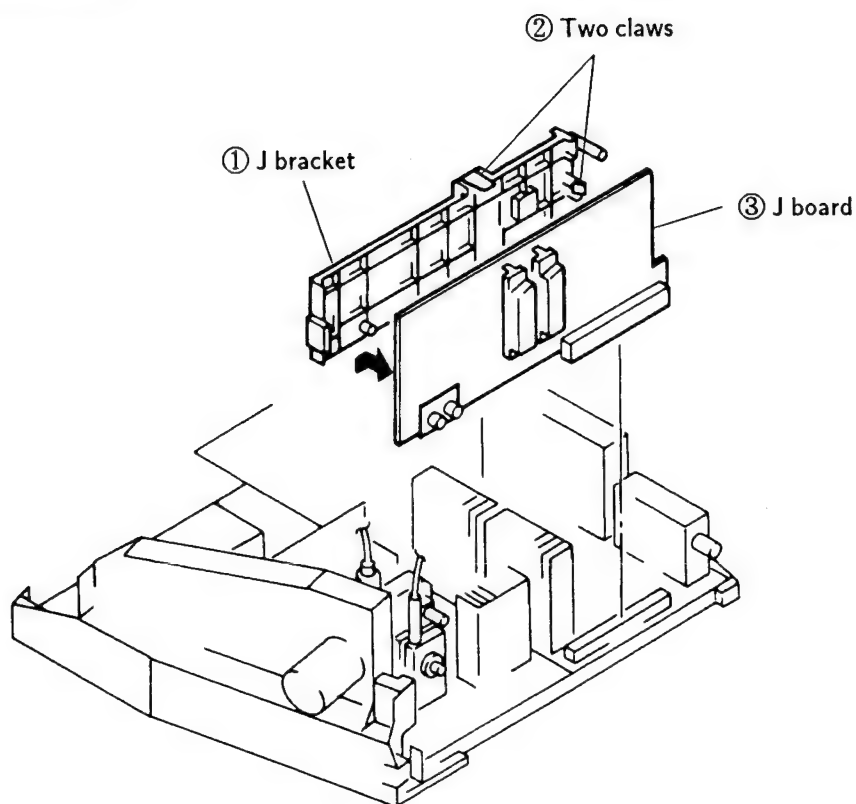
2-5. EXTENSION BOARD



2-6. F BRACKET REMOVAL

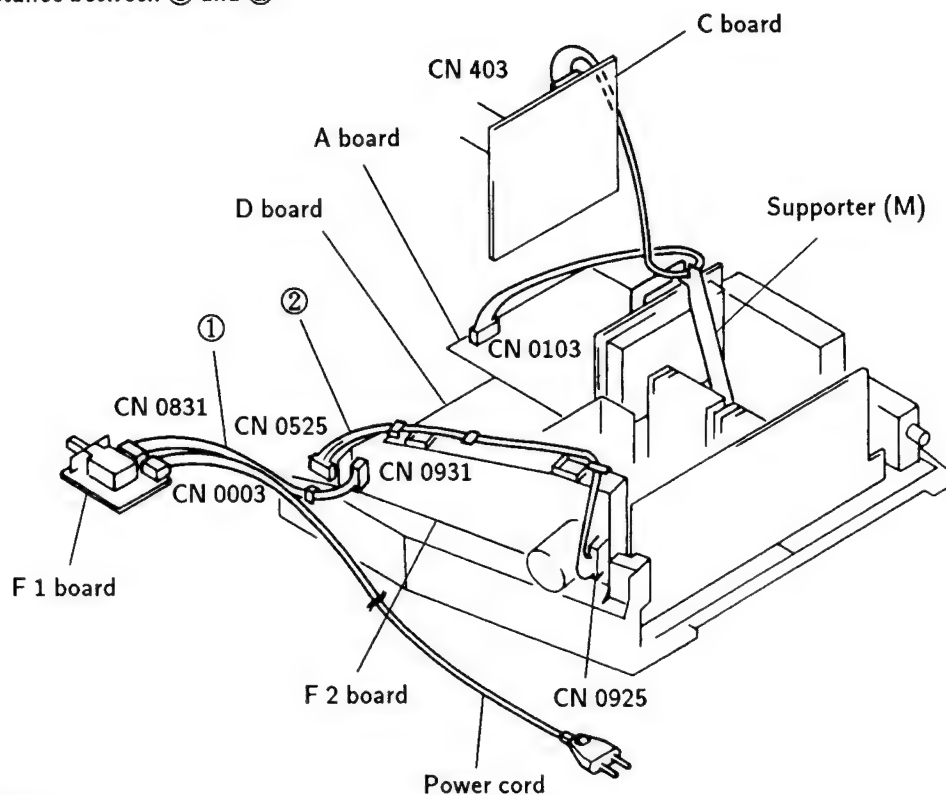


2-7. J BOARD REMOVAL

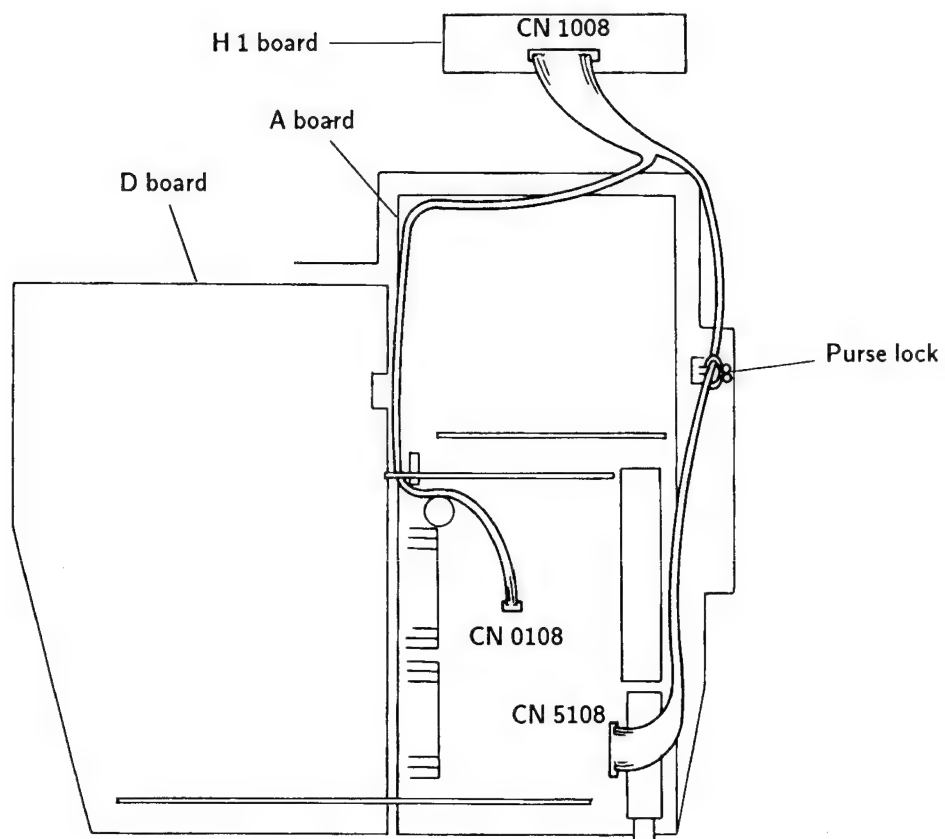


2-8-1. WIRE ROD

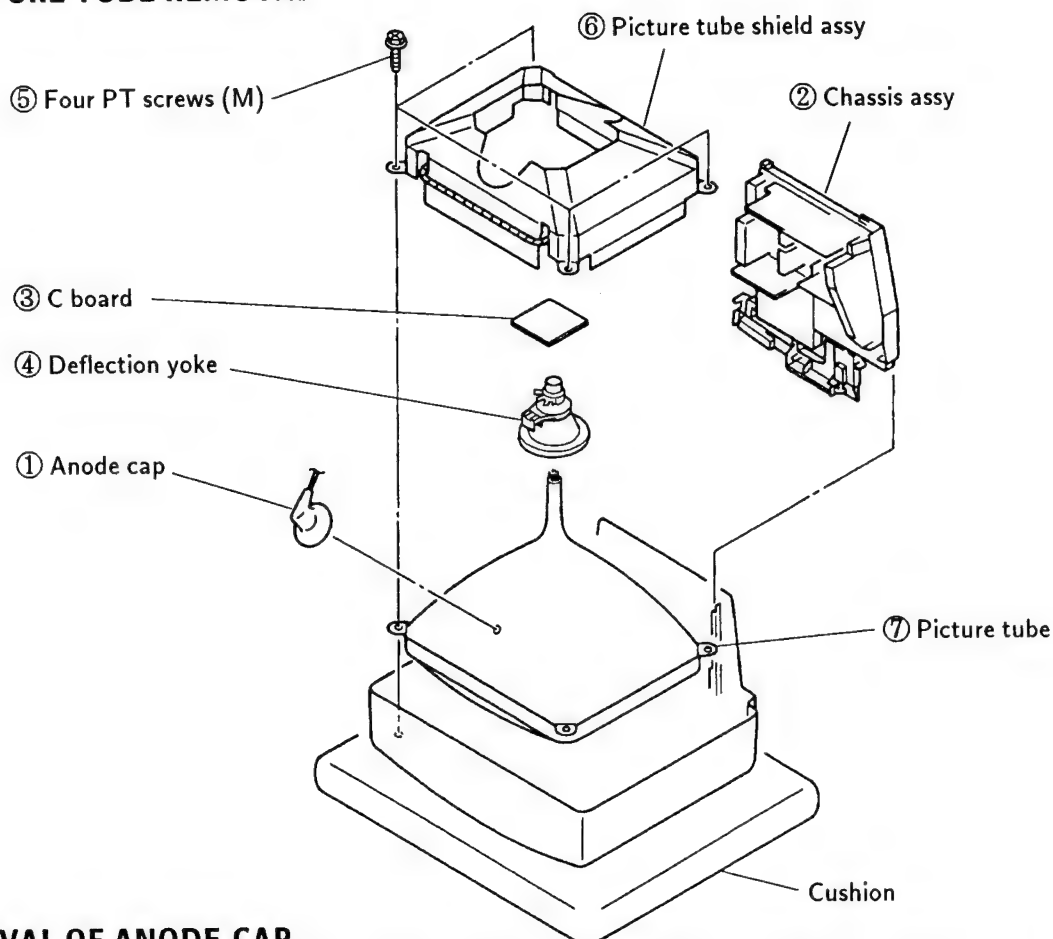
※ Keep distance between ① and ②



2-8-2. WIRE ROD



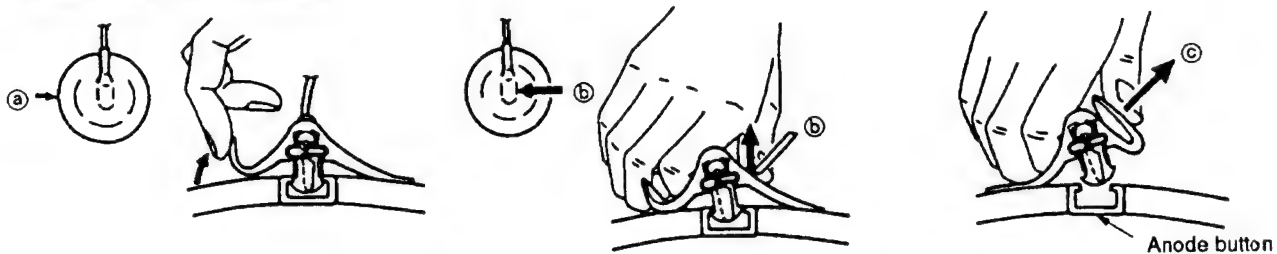
2-9. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

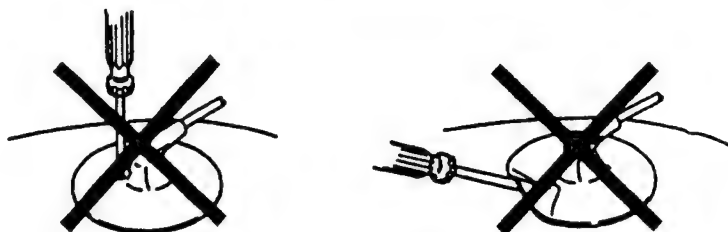
NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon painted on the CRT, after removing the anode.

• REMOVING PROCEDURES



• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material!
- ② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there is specific instruction to the contrary, carry out these adjustments with the rated power supply.
- Unless there is specific instruction to the contrary, set the controls and switches this way :
 - Contrast 80% (or remote control normal)
 - ☼ Brightness 50%

- Carry out the following adjustments in this order :

1. Beam landing
2. Convergence
3. Focus
4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparations :

- In order to reduce the influence of geomagnetism on the set's picture tube face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 - Contrast } normal
 - Brightness }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig.3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig.3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig.3-4)

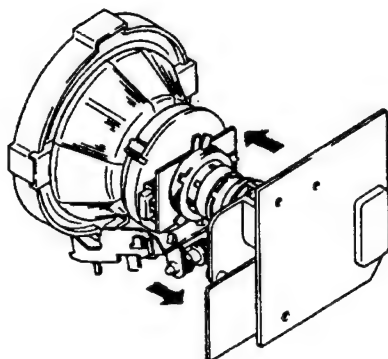


Fig.3-1

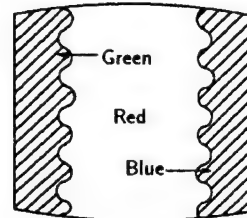
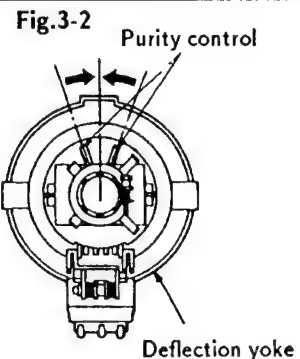


Fig.3-3

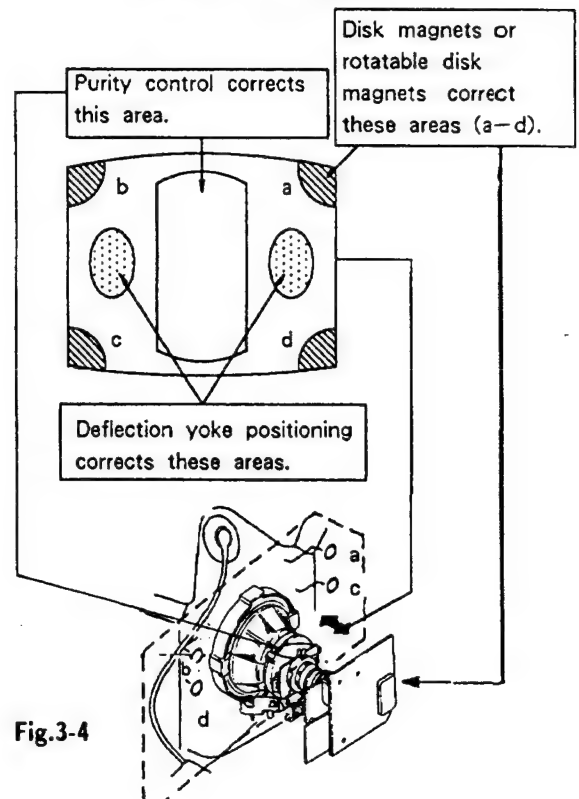


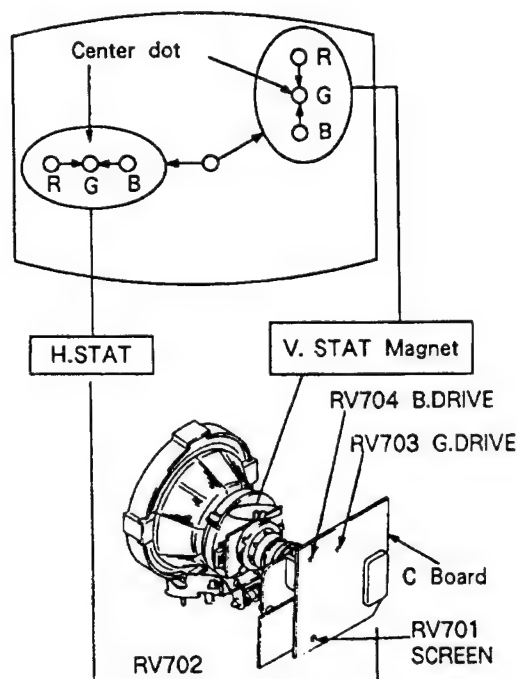
Fig.3-4

3-2. CONVERGENCE

Preparations :

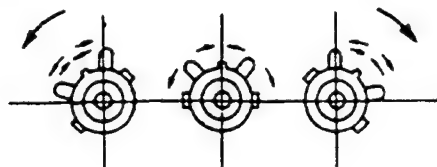
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and vertical static convergence

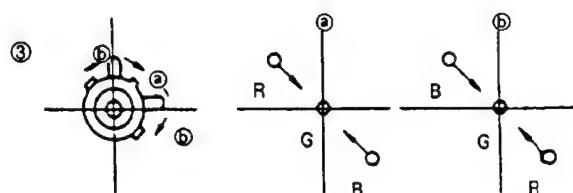
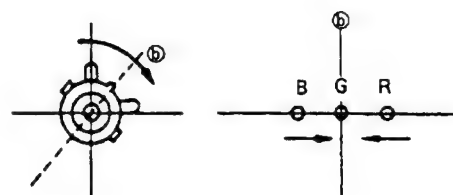
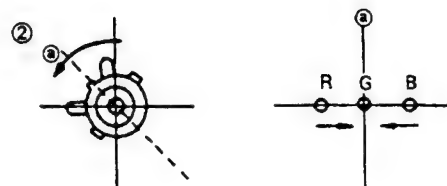
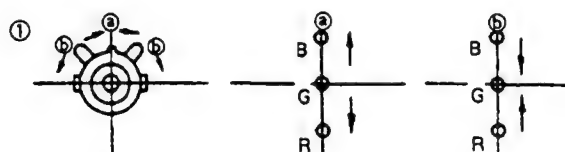


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V. STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V. STAT magnet influence each other)

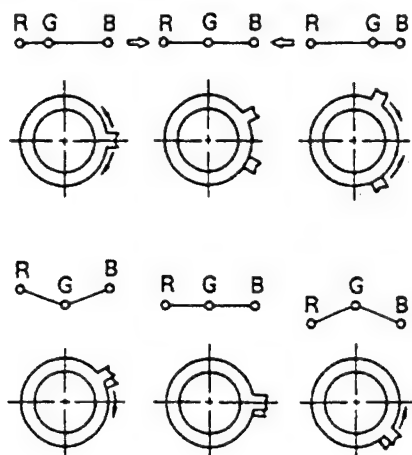
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the ㉑ and ㉒ arrows, the red, green, and blue points move as shown below.

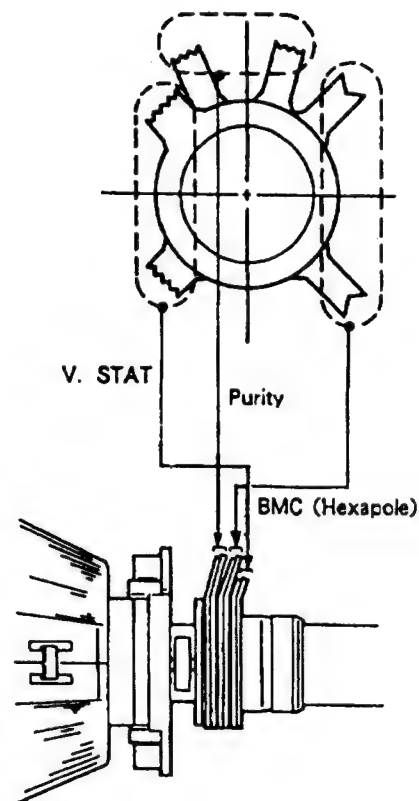


● Operation of BMC (Hexapole) Magnet



- The respective dot positions resulting from moving each magnet interact, so be sure to perform adjustment while tracking.

Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(2) Dynamic convergence adjustment

Preparations :

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.

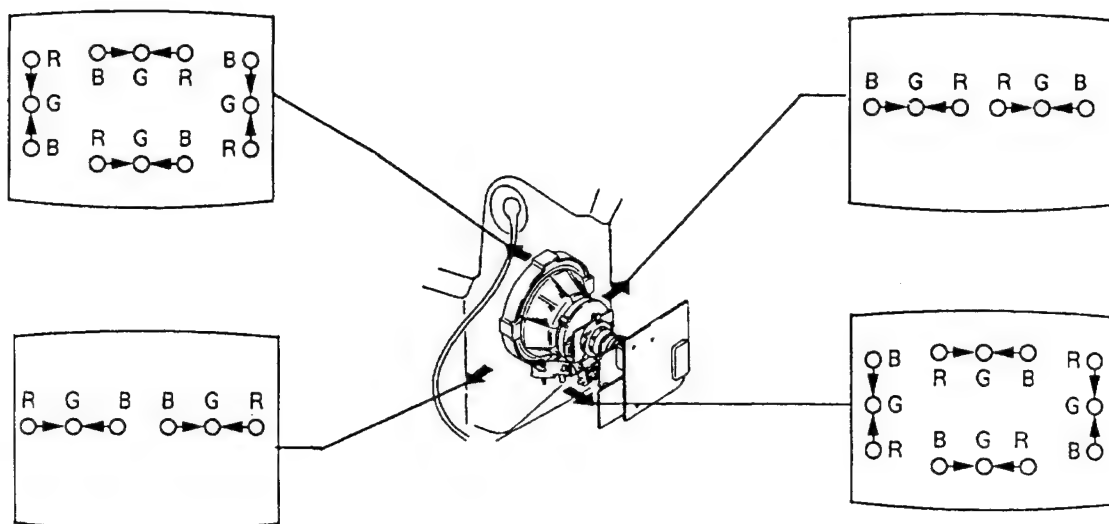
1. Slightly loosen the deflection yoke screws.

2. Remove the deflection yoke spacer.

3. Move the deflection yoke as shown in the figure below and optimize the convergence.

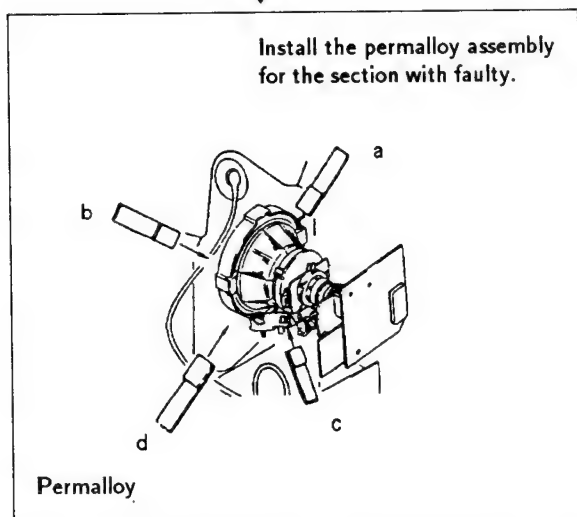
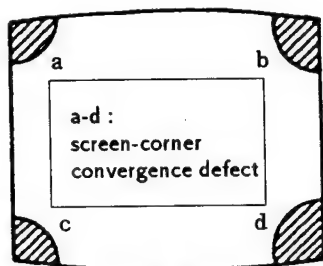
4. Tighten the deflection yoke screws.

5. Install the deflection yoke spacer.



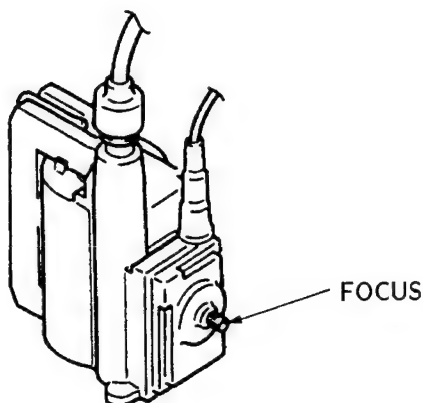
(4) Screen corner convergence

If you cannot adjust corner convergence properly, correct them with permalloy.



3-3. FOCUS

Adjust the focus to optimize the screen.



3-4. WHITE BALANCE

Screen G2 Setting

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G 2 control RV 701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" to how to enter service mode.)
3. Select CXA 1587 on menu.

09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.

4. Set picture to MAX.
5. Adjust G-DRIVE B-DRIVE with , buttons so that the white balance becomes optimum.
6. Press button to write the data for each item.
7. Set picture to MIN.
8. Adjust G-AUTO CUT OFF, B-AUTO CUT OFF, R-MANUAL CUT OFF, G-MANUAL CUT OFF and B-MANUAL CUT OFF with , buttons so that the white balance becomes optimum.
9. Press button to write the data for each item.

SECTION 4

CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-830.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set while pressing any two buttons on the front panel.

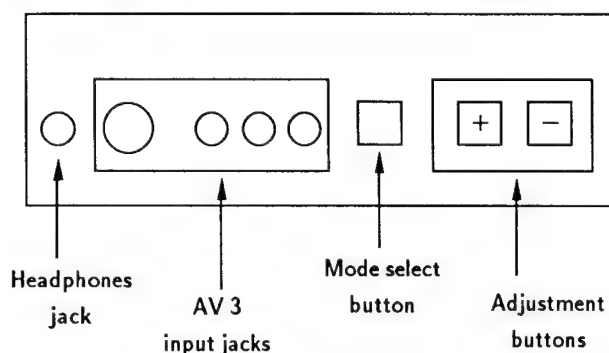


Fig.4-1

2. "TT" will appear on the upper right corner of the screen.

Command operation in service mode

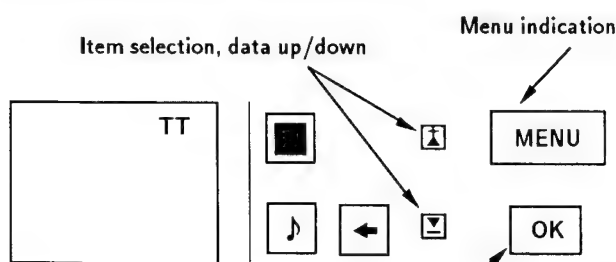


Fig.4-2

Fig.4-3

3. Press the **MENU** button of the commander to get the menu on screen.

MAIN MENU	
Programme Table	
Video Connection	
Picture Control	
Sound Control	
Timer	
Preset	
Language	
> DEMO	
Select < > and press OK	

Fig.4-4

4. Press the **▲** and **▼** buttons of the commander and move > to DEMO.
5. Press **OK** button to proceed to the next menu.
6. The menu of fig.4-5 will appear on screen. Select DEVICE corresponding to the adjustment item from the table on next page.

DEVICE	
Initialize	
> CXA1587S	
CXD 2018	
TDA 9145	
TDA 1526	
TDA 6612	
CXA 7948 A	
P/P service	
Select < > and press OK	

Fig.4-5

7. If adjustment item is CXA1587S, press the **▼** button and move > to CXA1587S.

CXA 1587 S

Item No.	Adjustment item	Data Amount
01	PICTURE	3
02	COLOR	1
03	BRIGHT	1
04	HUE	1
05	SHARPNESS	7
06	RGB PICTURE	3
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
> 09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.

8. Press **OK** button to get the next selection menu.
9. Press **▼** button and move > to the adjustment item and press **OK** button.
10. Press the **▲** and **▼** buttons to change the data in order to comply each standard.
11. Press **OK** button to write data.
12. Turn off the power to quit service mode when completing the adjustment.

CXA 1587 S

01	PICTURE	53
02	COLOR	31
03	BRIGHT	31
04	HUE	31
05	SHARPNESS	7
06	RGB PICTURE	13
07	SUB CONTRAST	ADJ.
08	SUB COLOR	ADJ.
09	SUB BRIGHT	ADJ.
10	SUB HUE	7
11	VM LEVEL	2
12	NR LEVEL	0
13	ABL MODE	0
14	G-DRIVE	ADJ.
15	B-DRIVE	ADJ.
16	G-AUTO CUT OFF	ADJ.
17	B-AUTO CUT OFF	ADJ.
18	R-MANUAL CUT OFF	ADJ.
19	G-MANUAL CUT OFF	ADJ.
20	B-MANUAL CUT OFF	ADJ.
21	GAMMA LEVEL	0
22	DC TRANSFER RATIO	3
23	DINAMIC PICTURE	0
24	Y FILTER ADJ	ADJ.
25	Y DELAY TIME	15
26	Y DELAY SWITCH 1	0
27	Y DELAY SWITCH 2	1
28	SHARPNESS LIMIT	ON
29	ALL BLK	OFF
30	H SHIFT	32
31	DAC TEST	ON
32	PRE/OVER SHOOT	7
33	SHARPNESS FO	2
34	SUB SHARPNESS	3
35	R MUTE	OFF
36	G MUTE	OFF
37	B MUTE	OFF

38	AGING 1	OFF
39	AGING 2	OFF
40	AKB OFF	ON
41	INHIBIT RGB	OFF
42	FORCED RGB	OFF
43	V/2 V	OFF
44	AXIS	PAL
45	HUE SW	OFF
46	V EXTENTION	OFF
47	AFC 1	1
48	AFC 2	0
49	AFC OFF	ON
50	REF.POSITION	0

CXD 2018 Q

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

Typical Value (OSD based)when receiving PAL Philips pattern.

TDA 6612	ADJ.
Stereo-Separation	(30)

Should be adjusted twice 4 : 3 and 16 : 9 mode.

Y FILTER ADJUSTMENT

1. Input PAL RED pattern.
2. Connect an oscilloscope to CN 0403 ① pin (R OUT) on the C board.
3. Enter into service mode and press 3, 8.
4. Adjust data by \triangle or ∇ to minimize the chroma element of CN 0403 ① pin.

SUB BRIGHTNESS ADJUSTMENT

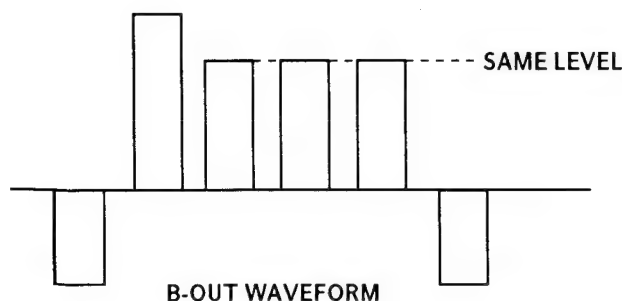
1. Input Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of the grey scale and CUT -OFF 20-IRE glitter slightly.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains small 100% area on the Black Back ground.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Adjust data so that 2.5 Vp-p can be obtained at ① CN 0403 (R out).

SUB COLOR ADJUSTMENT

1. Input PAL color bar.
2. Connect an oscilloscope to CN 0403 ③ pin (B OUT) on the C board.
3. Enter into service mode and press 22 of CXA1587S, 8 SUB COLOR.
4. Adjust data so that the right sides of the waveform will be the same.



STEREO-SEPARATION ADJUSTMENT

1. Input 1 kHz stereo signal to the L-ch and 400 Hz stereo signal to the R-ch.
2. Enter into service mode and press 19.
3. Adjust data so that sound does not leak to the R-ch and the L-ch.

DRIVE AND CUT OFF

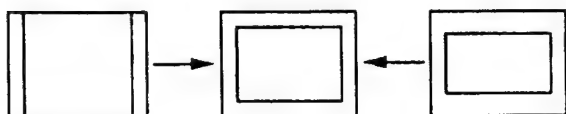
See direct test mode list attached and refer to sub brightness or such for adjustment method.

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode and select CXD 2018.
2. Select and adjust each item in order to get an optimum image.

01	V SIZE	ADJ.
02	V SHIFT	ADJ.
03	S CORRECTION	ADJ.
04	V LINEARITY	ADJ.
05	H SIZE	ADJ.
06	PIN AMP	ADJ.
07	TILT	ADJ.
08	UPPER CORNER	ADJ.
09	LOWER CORNER	ADJ.
10	V BOW	ADJ.
11	ANGLE	ADJ.
12	HV COMP.V	13
13	HV COMP.H	8
14	FRAME SHIFT	OFF
15	FREE RUN 60 Hz	OFF
16	SYSTEM 60 Hz	OFF
17	ASPECT WIDE	OFF
18	DOUBLE SCAM	OFF
19	NON INTERLACE	ON
20	H SHIFT	32
21	N/S CORRECTION	ADJ.

V SIZE



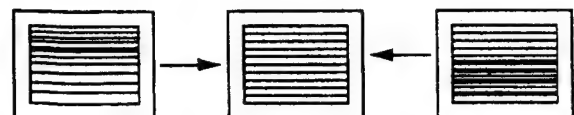
V SHIFT



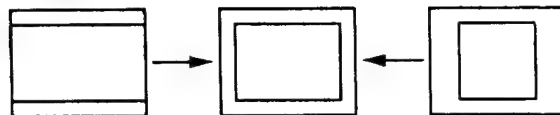
S CORRECTION



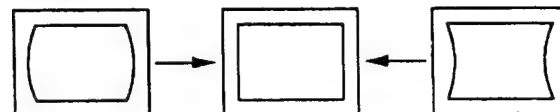
V LINEARITY



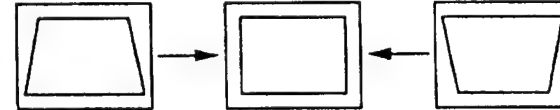
H SIZE



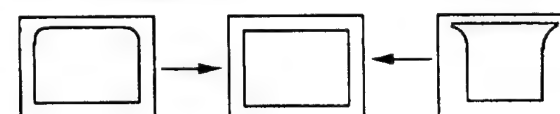
PIN AMP



TILT



UPPER CORNER PIN



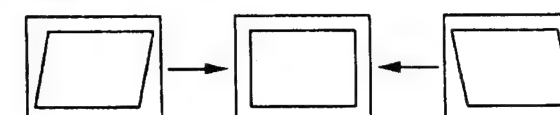
LOWER CORNER PIN



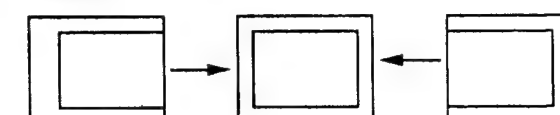
V BOW



ANGLE



H SHIFT



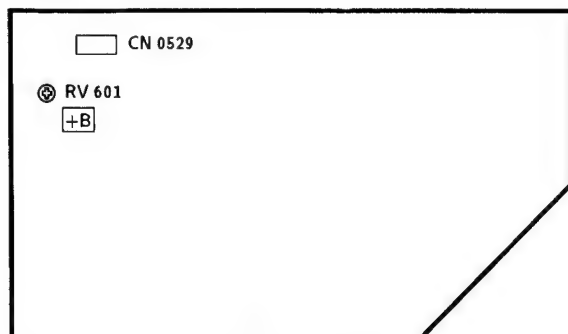
3. Press **OK** button to write the data.

If menu display may disturb the adjustment press **⏏** to clear, to resume it, press **⏏** again.

4-2. VOLUME ELECTRICAL ADJUSTMENTS

+B (+135 V) ADJUSTMENT (RV 601)

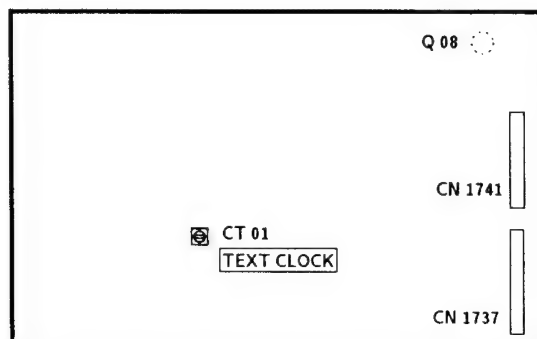
D BOARD



1. Turn on the power of the TV set.
2. Connect a digital multi-meter to ① pin of CN 0529 on D board.
3. Adjust RV 601 on D board to +135 V.

TEXT CLOCK ADJUSTMENT (CT 01)

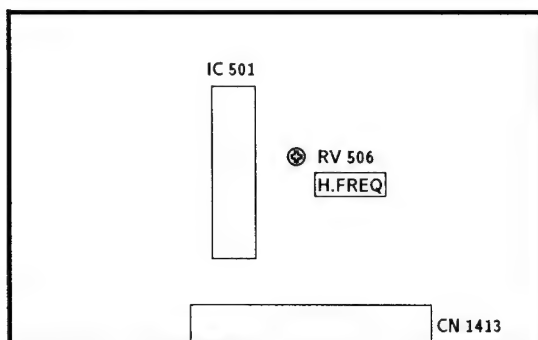
V BOARD



1. Get TEXT MENU on screen.
2. Connect GND and the base of Q 08 on V board.
3. Adjust CT 01 on V board so that the MENU stands still as much as possible.

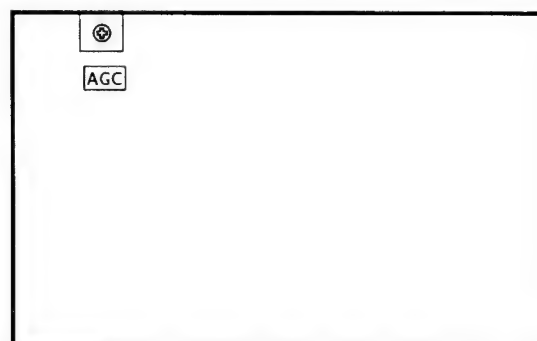
H.FREQ ADJUSTMENT (RV 506)

M BOARD



1. Connect GND to ⑫ pin of IC 501 on M board.
2. Connect a frequency counter to ④ pin of IC 501.
3. Adjust RV 506 on M board to 15,625+100 Hz.
4. Remove ⑫ pin of IC 501 from GND.

AGC ADJUSTMENT (IF BLOCK)



1. Receive off-air signal.
2. Adjust AGC VR so that there is no snow noise and cross-modulation.
3. Change receiving channel and confirm status.

4-3. TEST MODE 2 :

Is available by pressing Test button two times, OSD "TT" appears. The functions described bellow are available by pressing the two numbers. To release the Test Mode 2, press two times 0, or switch TV in Standby Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Aging Condition (Volumin., Picture max., Brightness max., Aging 2 Mode of CXA 1587S, TDA 2595 is locked to CXA 1587S via PIN 34 of μ -Con.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	dummy
10	Tenth entry is deleted
11	Balance
12	Hue
13-14	dummy
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM
17	Preset Lavel for AV Sources
18	dummy
19	Stereo Seperation
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24-29	dummy

30	Tenth entry is deleted
31	Green Drive
32	Blue Drive
33	Green Cut Off (Auto Cut Off)
34	Blue Cut Off (Auto Cut Off)
35	Red Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
36	Green Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
37	Blue Cut Off (Manual Cut Off) (Auto Cut Off is switched off)
38	Y-Filter adjustment (Trap is switched off and TDA 9145 is switched in forced NTSC Mode)
39	dummy
40	Tenth entry is deleted
41	Default setting of CXA 1587S (Only in Plog 99 available)
42	Default setting of CXA 2018 (Only in Plog 99 available)
43	Default setting of CXA 1526 (Only in Plog 99 available)
44	(all Port High) Not yet
45	(all Port High) Not yet
46-48	dummy
49	Erease the NVM Testbyte (this byte detects already stored NMV's) After selecting this function, switch TV Off and On → the NVM will be preset by μ -Controller. (Not the channel data)

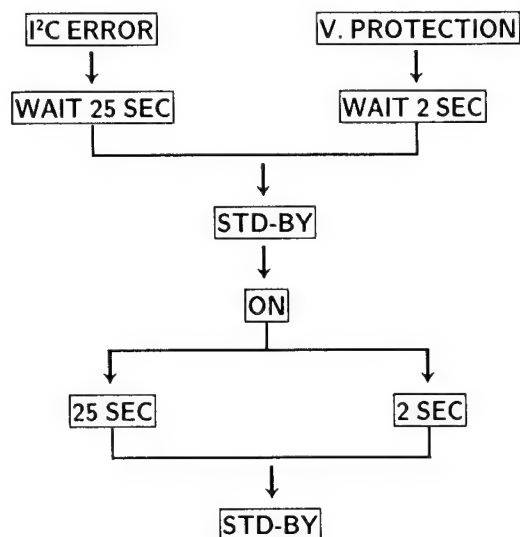
Note : For No. 35, 36, 37 and 38 special pressing (AKB, forced Color Mode, Trap) is selected. After selecting a new Test Mode Number, the AKB is switched ON, the Trap is switched On and TDA 9145 is switched to Auto Search Mode.

In Test Mode 2 the Menu display is switchable by Speaker-Off button.

4.4. ERROR MESSAGE

Self diagnos system can operates as follows.

- When MP can't get the acknowledge back from the device, LED starts flashing according to the table as attached.



In case of more errors in parallel, the blinking error shows max. Priority according to the error number (e.g. error 2 and error 5 appears together, then LEDs shows error 2) .

TABLE OF ERRORS

ERROR COUNT	IC TYPE	FUNCTION
1	II C BUS	SDA low
2	X 24 C 16	EEPROM
3	SDA 3202	Tuner PII
4	TDA 9145	Colour decoder
5	CXA 1587S	RGB/Jungle
6	TDA 6612	Sound processor
7	CXD 2018	V deflection
8	CXA 1545	AV switch
11	SDA 5248	Text
13		V protection

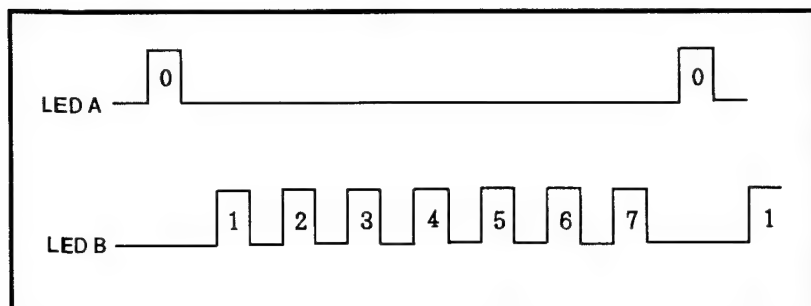
Stand by LED
blinking

No IK return

4-5. ERROR II C BUS DIAGNOSIS SYSTEM IN AE 2 CHASSIS AVAILABLE

For all ICs in AE 2 chassis which are necessary to get picture and sound there is a built in error I²C Bus diagnosis system.

In case of no acknowledge bit, LED A and LED B starts blinking as shown.



MEMO

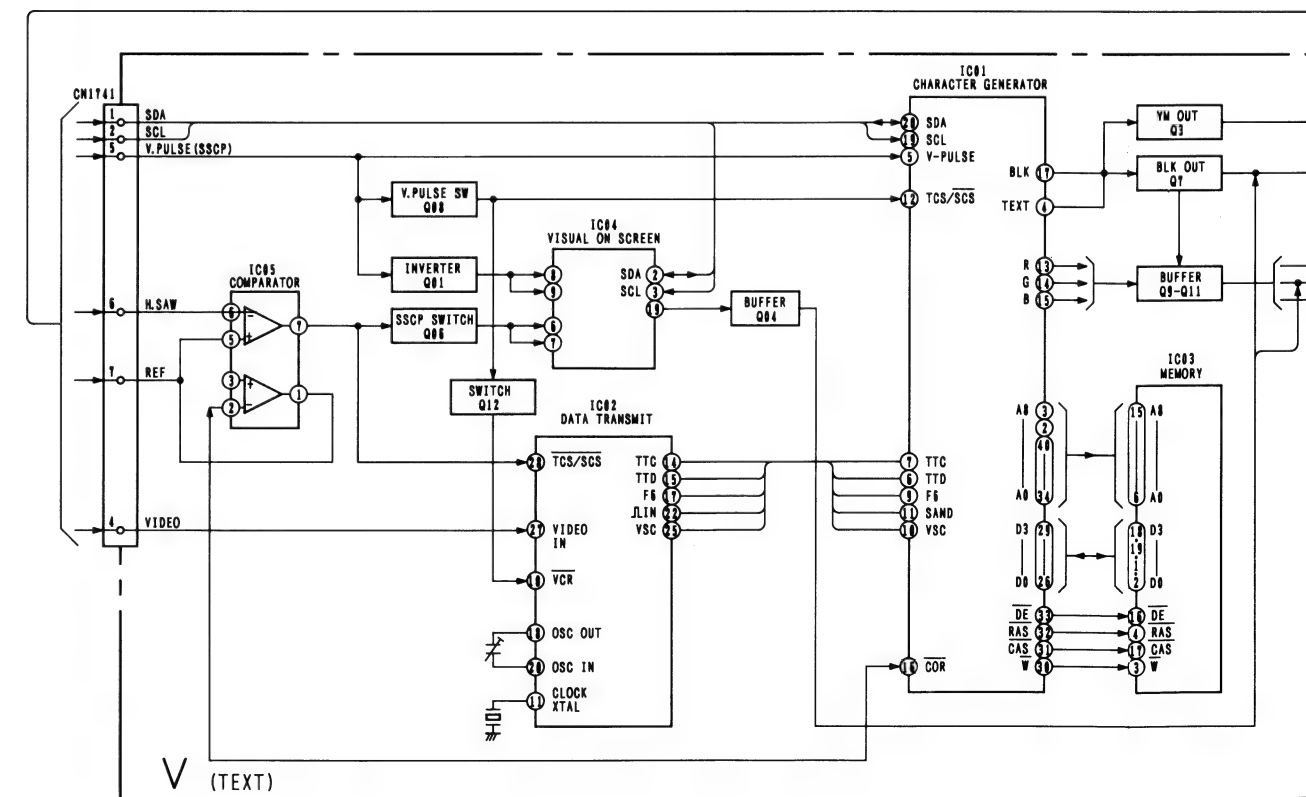
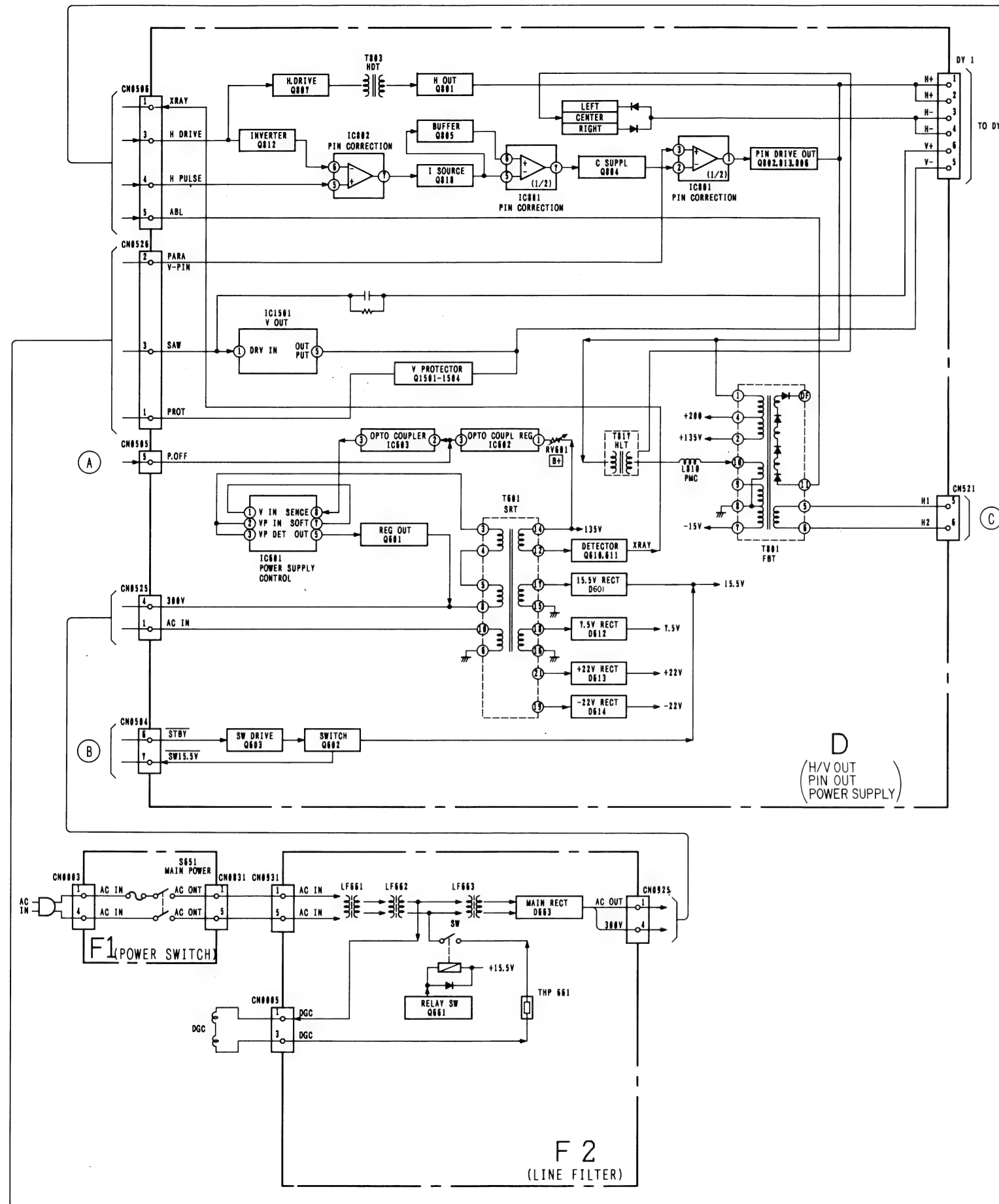
Handwriting practice lines consisting of 28 horizontal dotted lines.

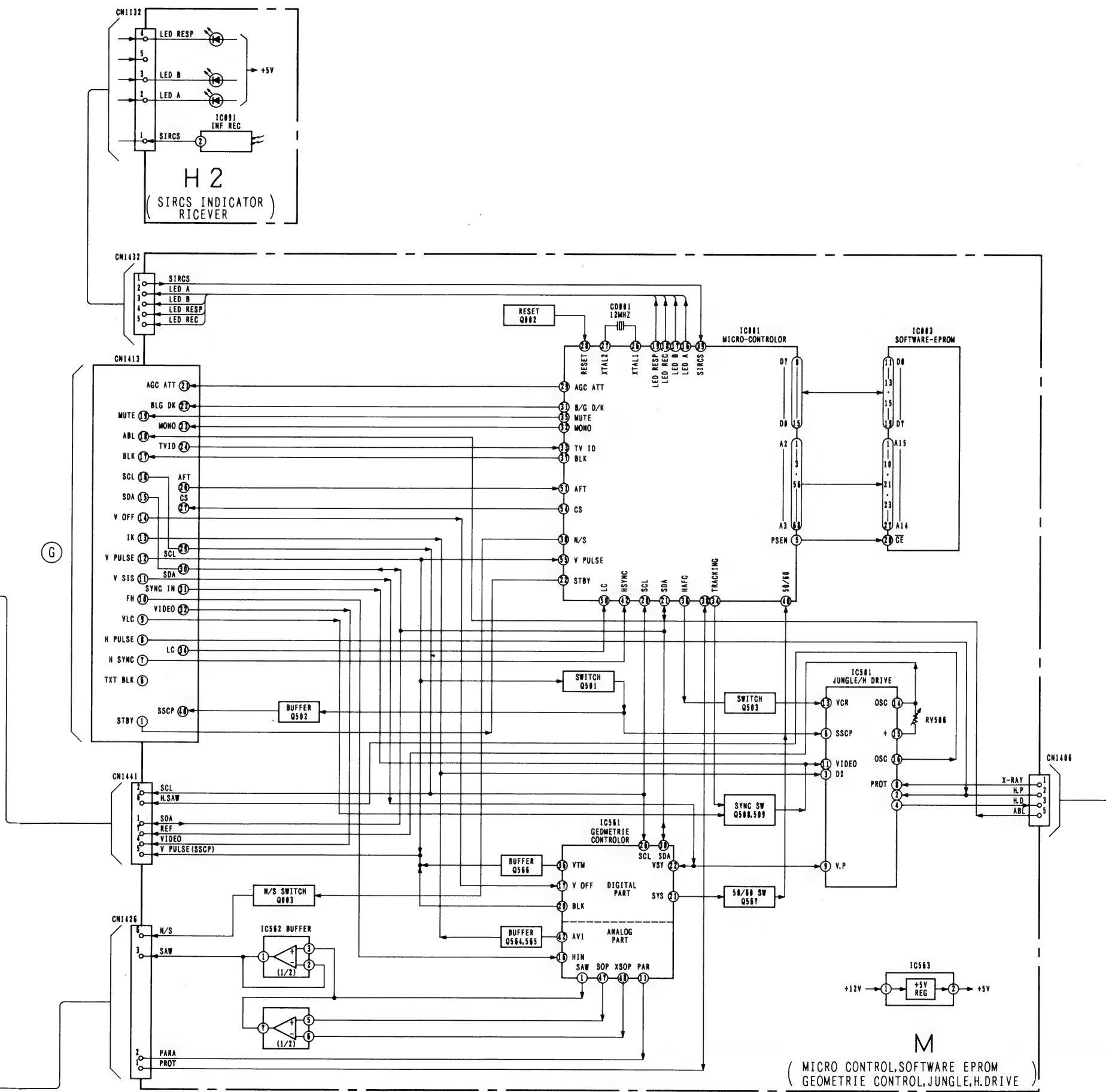
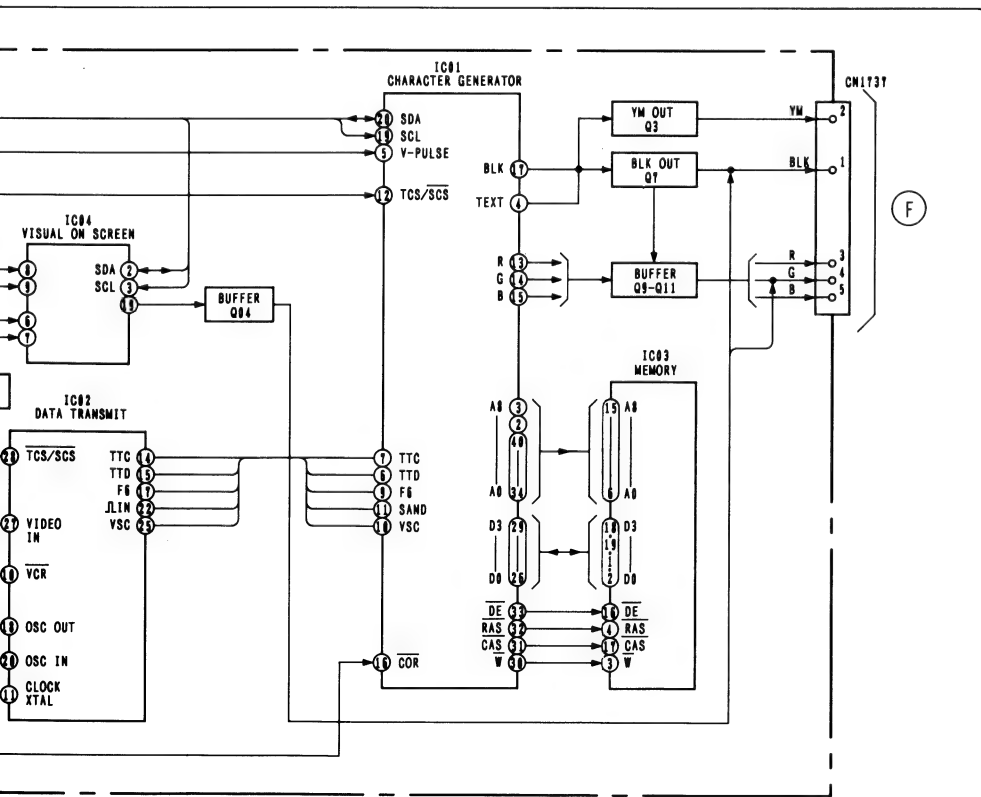
SECTION 5 DIAGRAMS

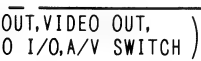
KV-X256

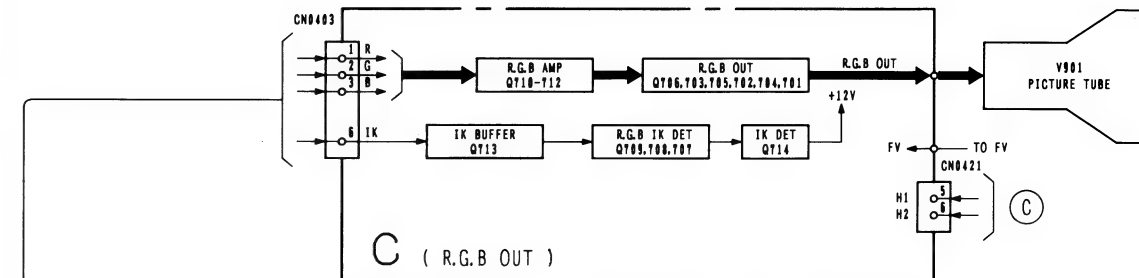
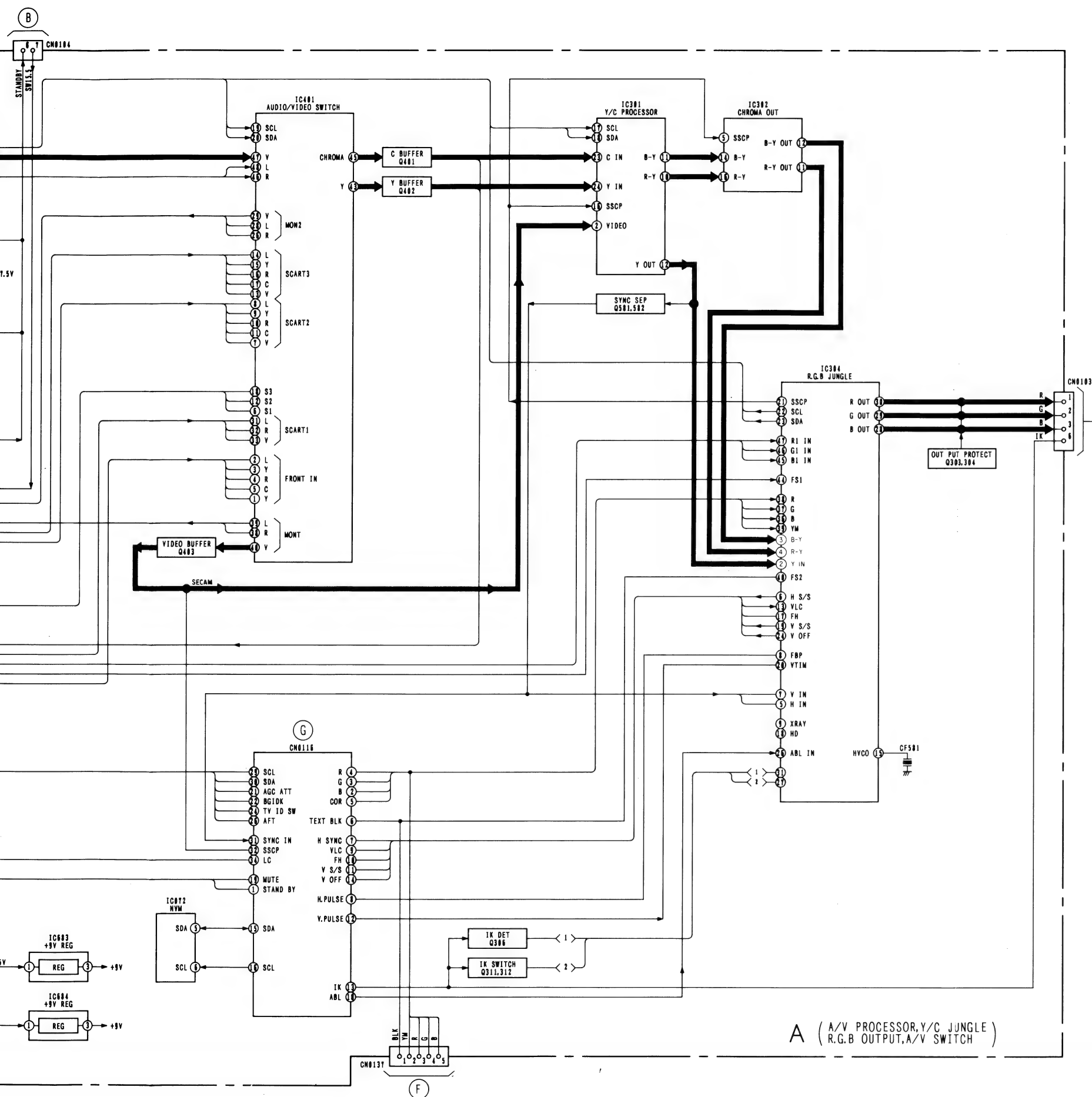
KV-X256

5-1. BLOCK DIAGRAM (1)

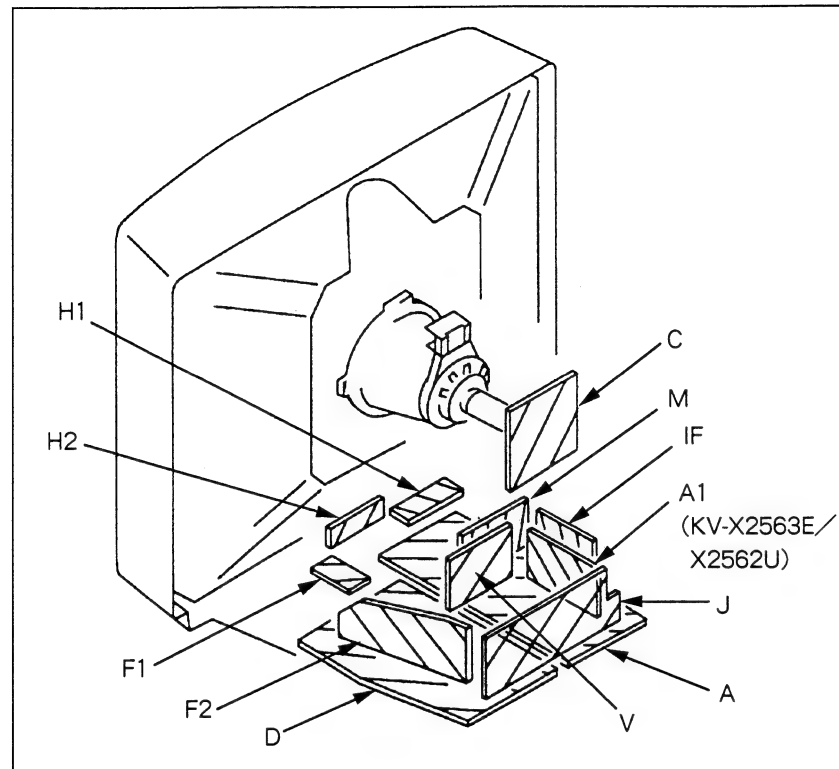








5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
pF: μF 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which dose not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : $\frac{1}{4}\text{W}$

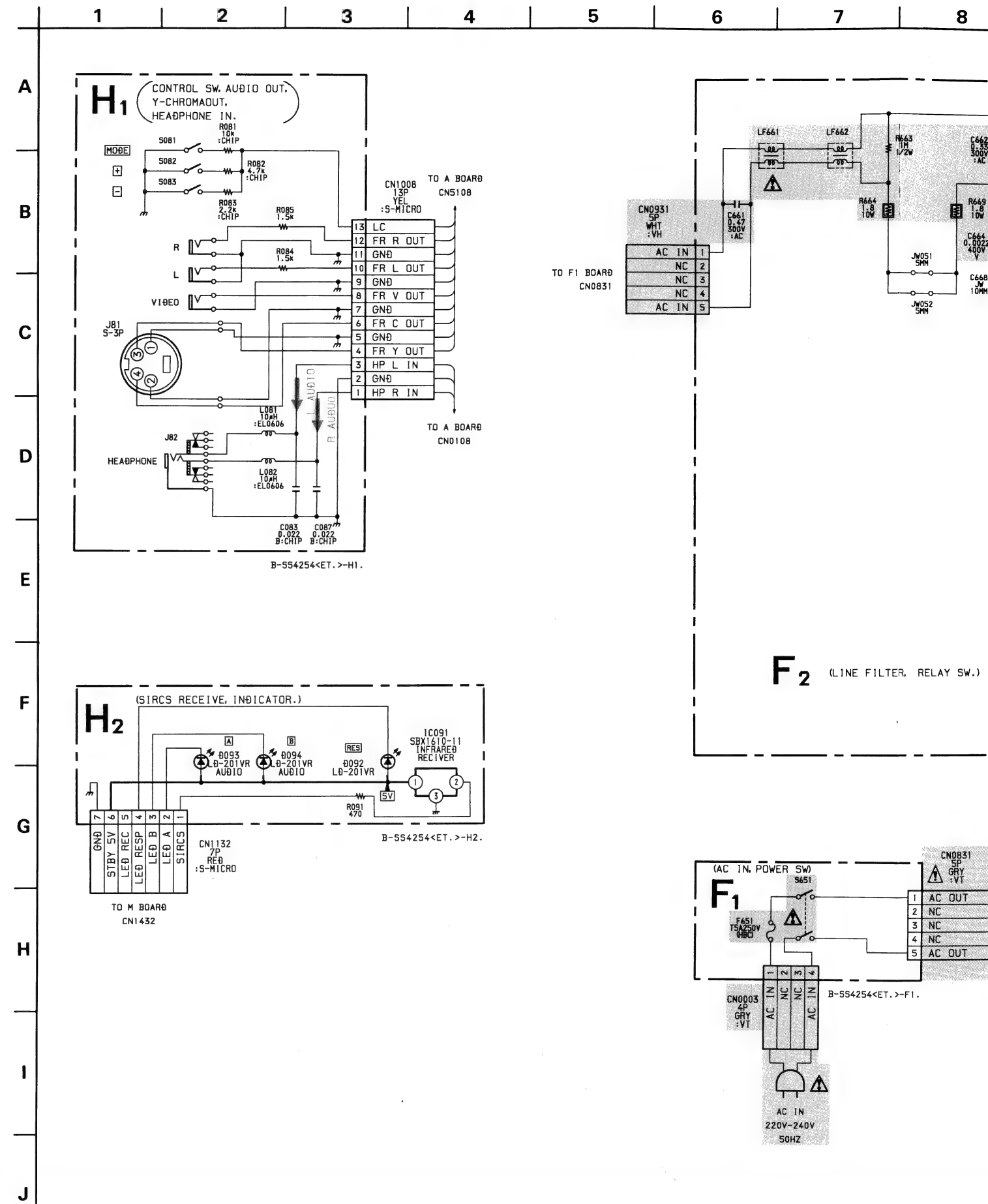
- Chip resistor is in $1/10\text{W}$.
- All resistors are in ohms.
 $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{K}\Omega$
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- : B+ bus.
- : B- bus.
- : signal path.(RF)
- : earth - ground
- : earth - chassis

Reference information

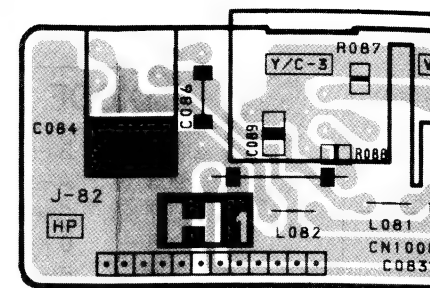
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

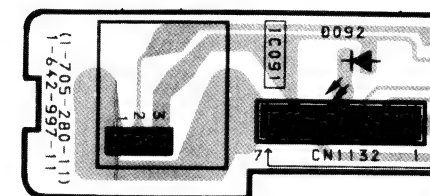
Note: Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.



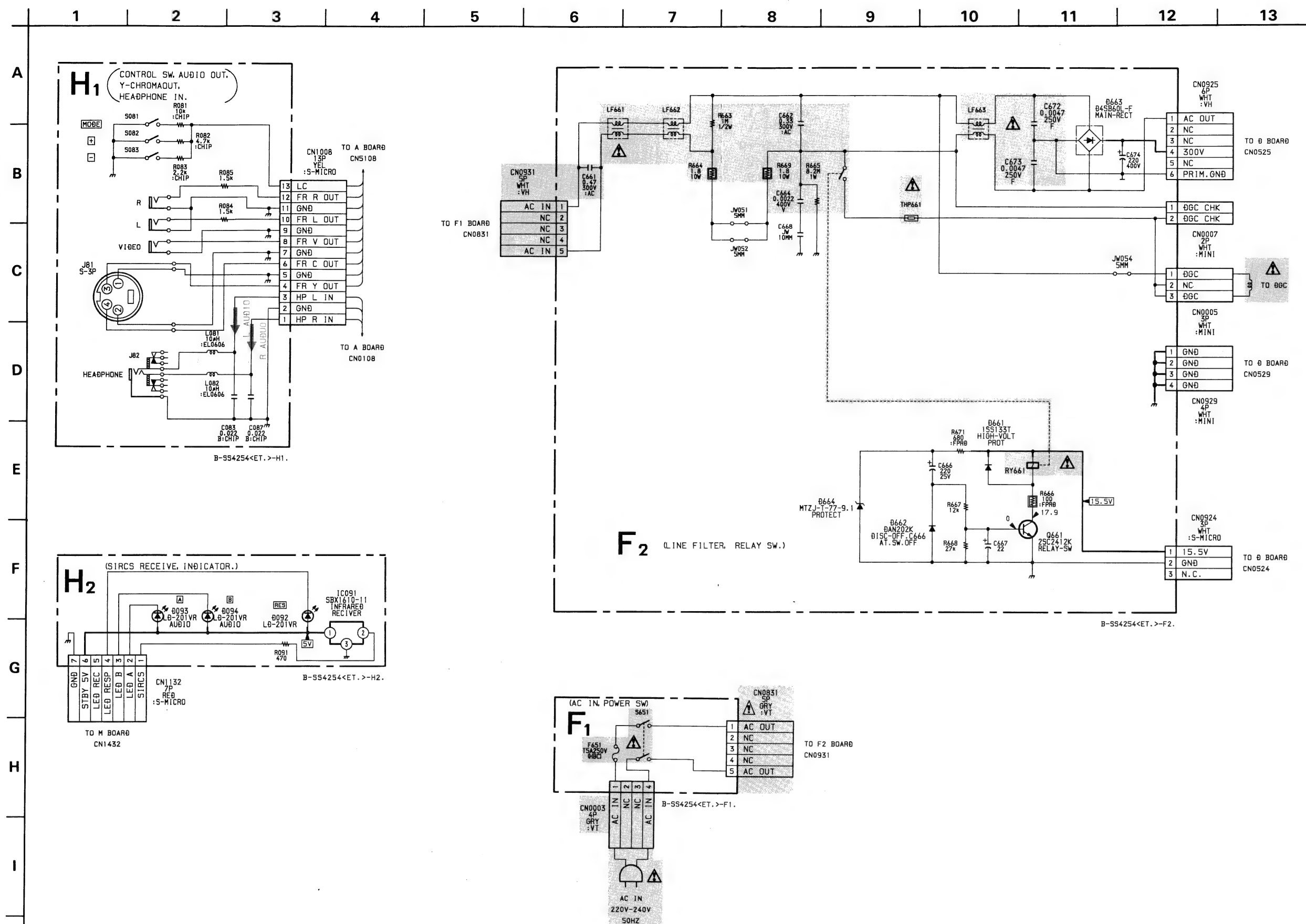
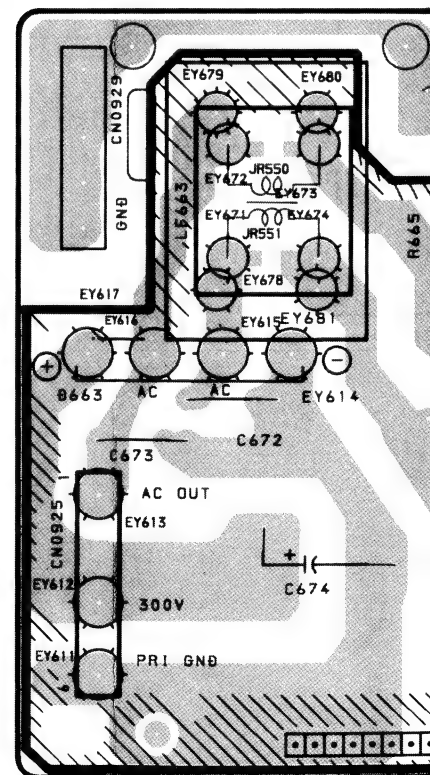
– H1 BOARD –

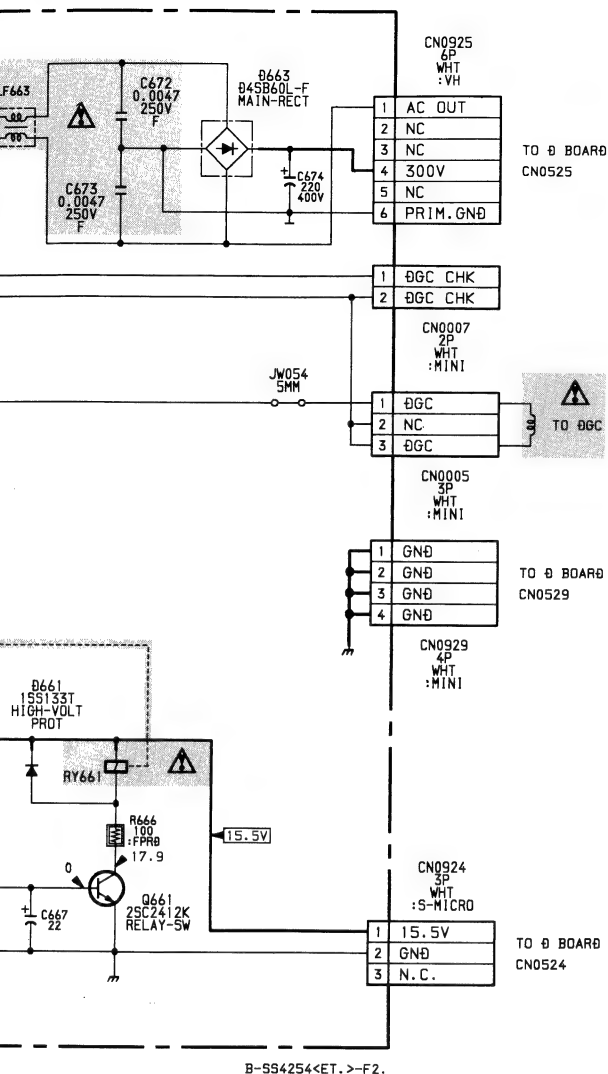


– H2 BOARD –



– F2 BOARD –





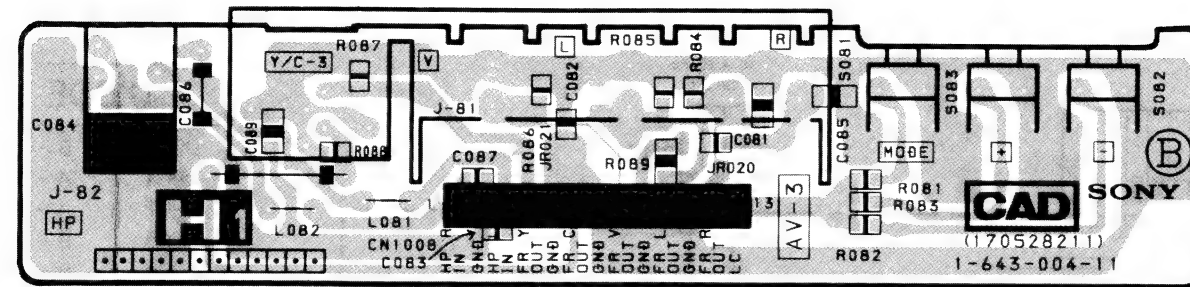
H1 [CONTROL SW, AUDIO OUT,
Y-CHROMA OUT,
HEADPHONE IN]

H2 [SIRCS RECEIVER,
INDICATOR

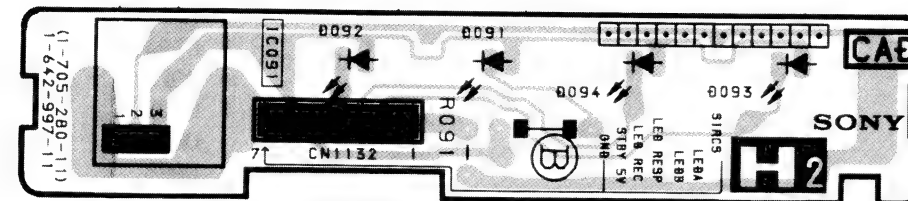
F1 [AC IN,
POWER SW]

F2 [LINE FILTER,
RELAY SW]

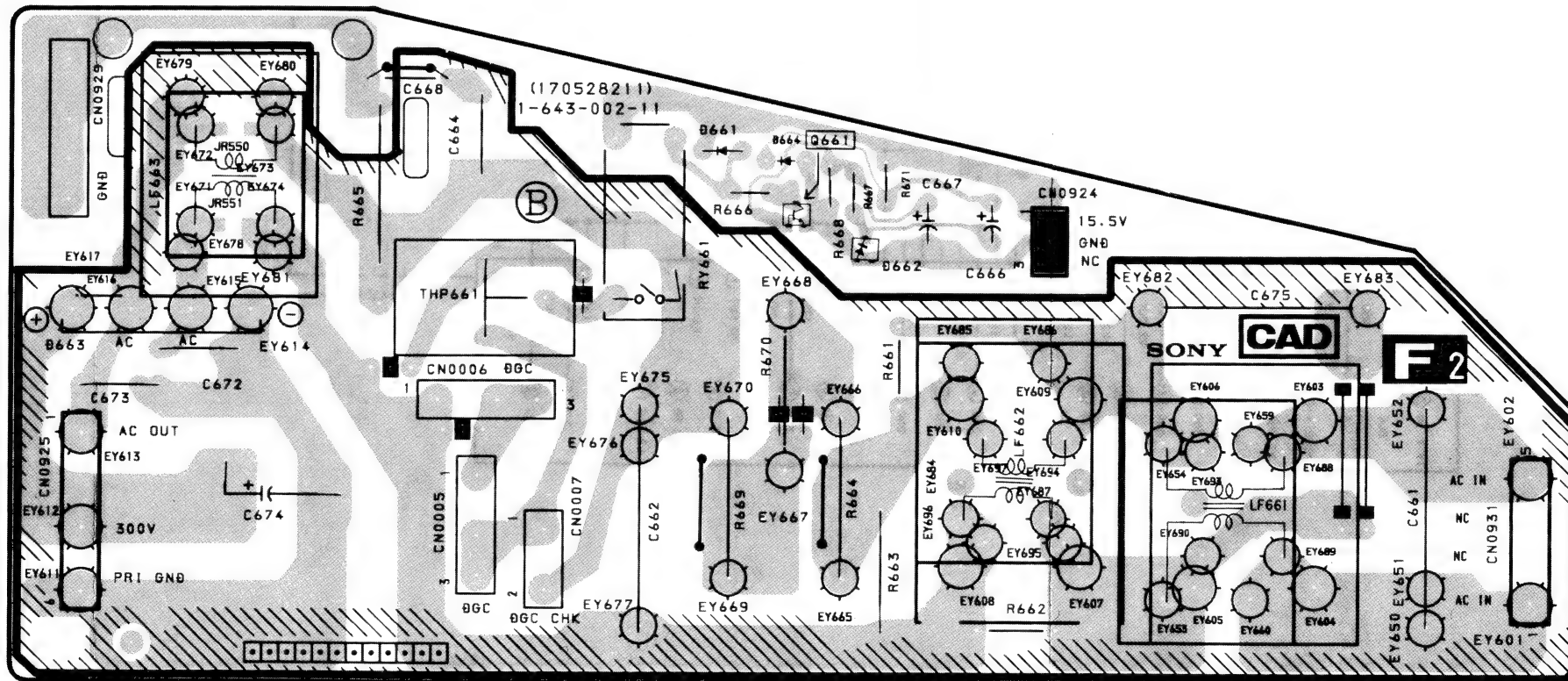
— H1 BOARD —



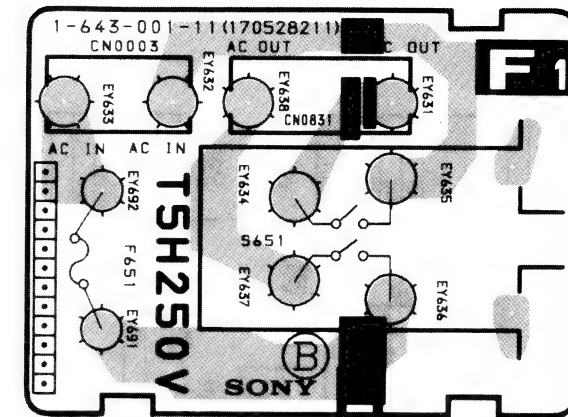
– H2 BOARD –



- F2 BOARD -

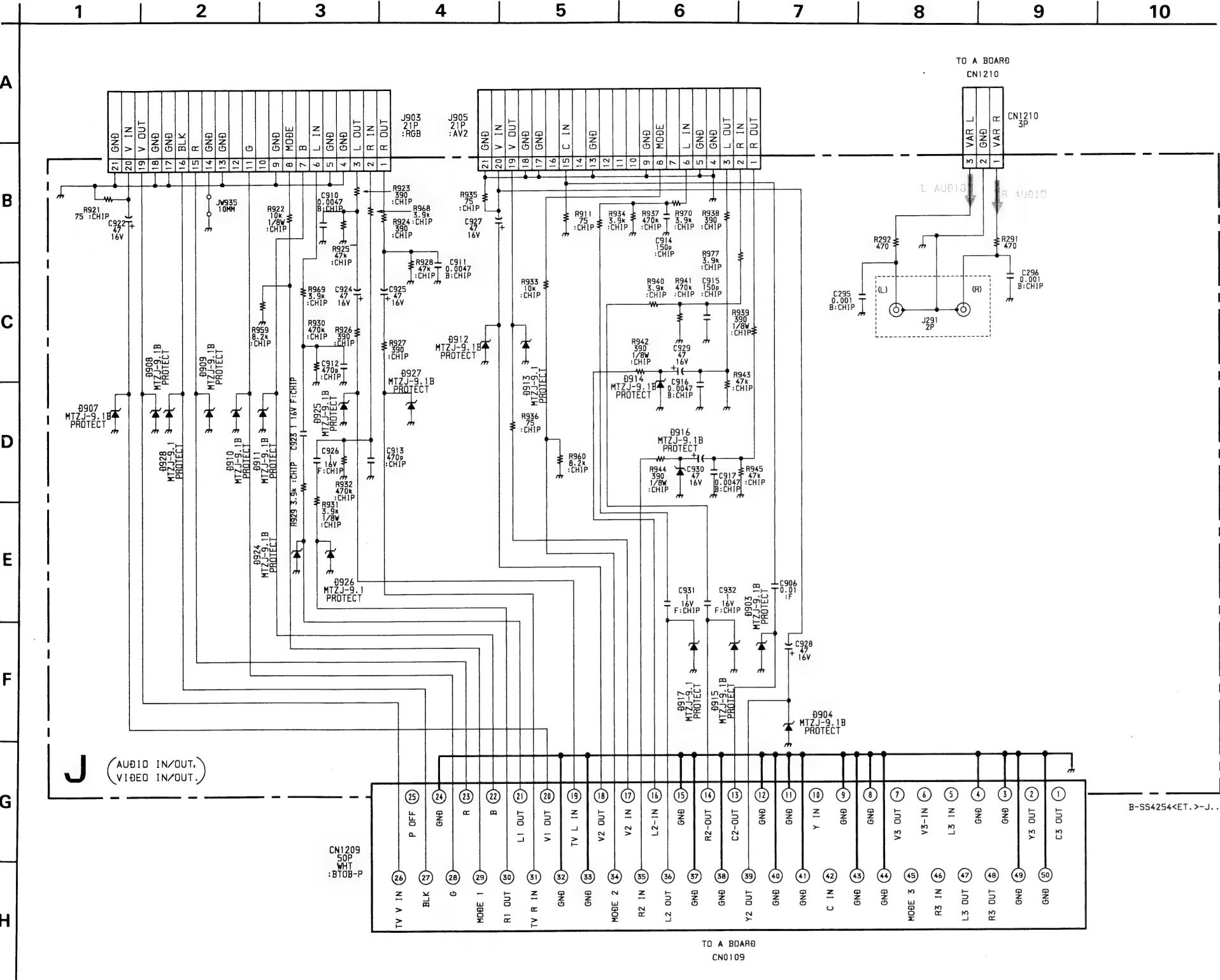


– F1 BOARD –



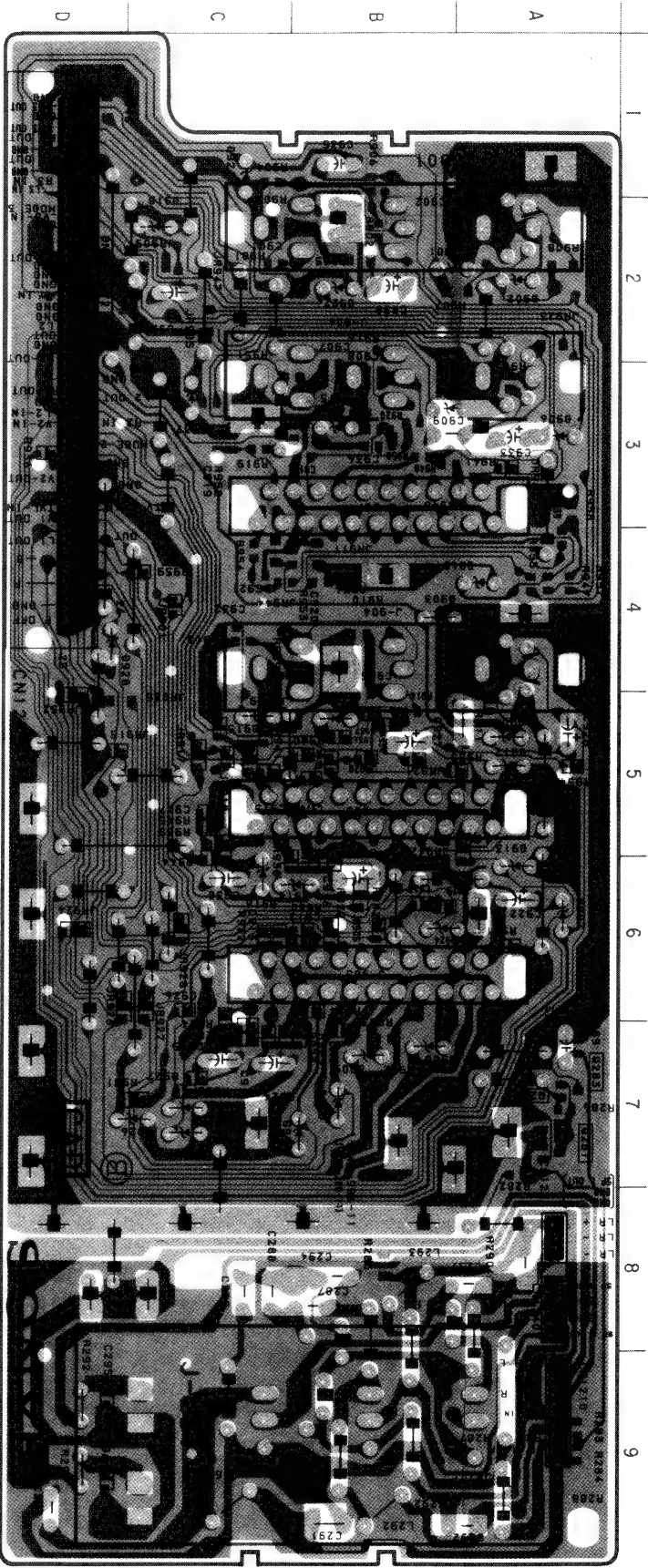
J AUDIO IN/OUT,
Y-CHROMA IN/OUT,
VIDEO IN/OUT

A TUNER, AUDIO, CONTROL, AV
SWITCH, RGB JUNGLE,
Y/C PROCESSOR



DIODE	
D903	B-4
D904	A-5
D907	A-6
D908	B-7
D909	B-7
D910	B-7
D911	B-7
D912	A-5
D913	A-6
D914	B-6
D915	C-5
D916	C-6
D917	B-5
D924	B-6
D925	C-7
D926	C-7
D927	C-7
D928	D-4

- J BOARD -



Note :
• : Pattern from the side which enables seeing.
• : Pattern of the rear side.

J

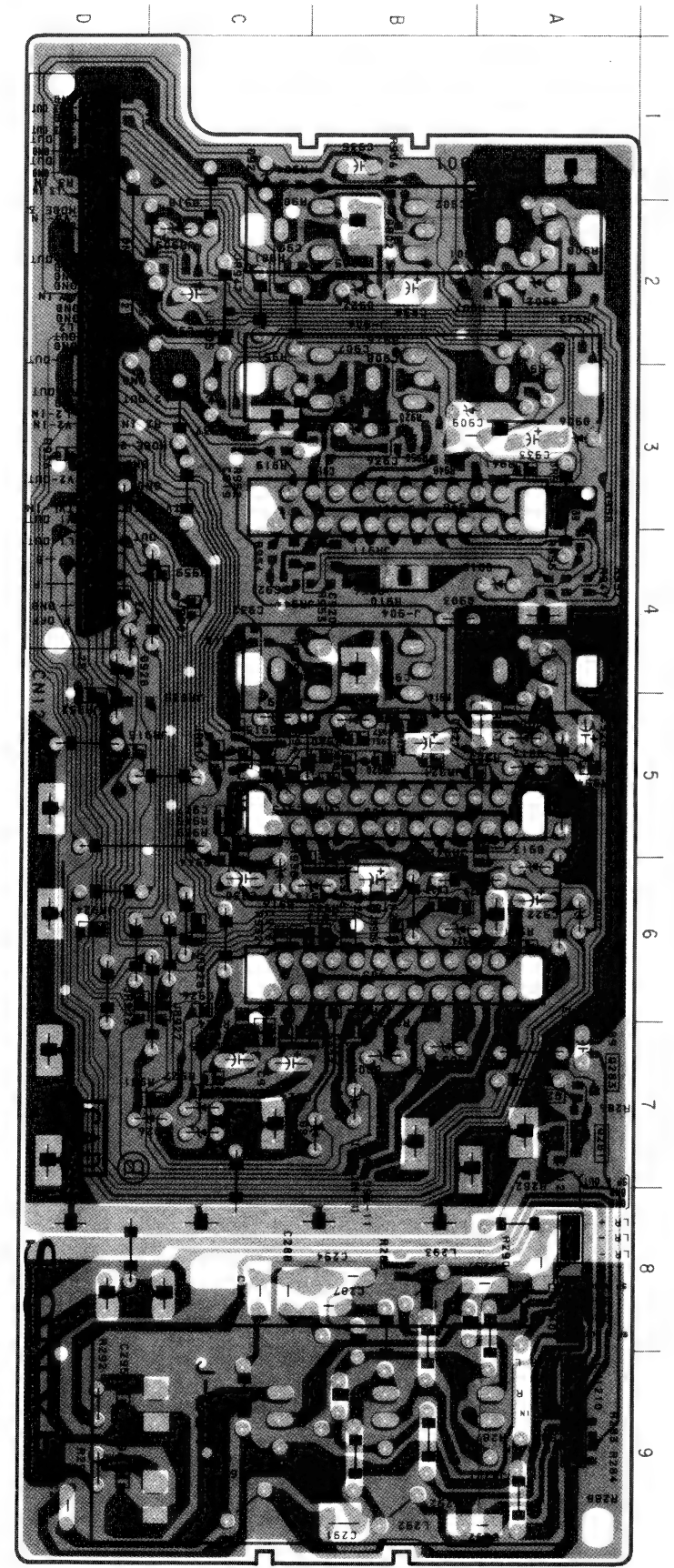
AUDIO IN/OUT,
Y-CHROMA IN/OUT,
VIDEO IN/OUT

A

TUNER, AUDIO, CONTROL, AUDIO AMP
AV SWITCH, RGB JUNGLE,
Y/C PROCESSOR

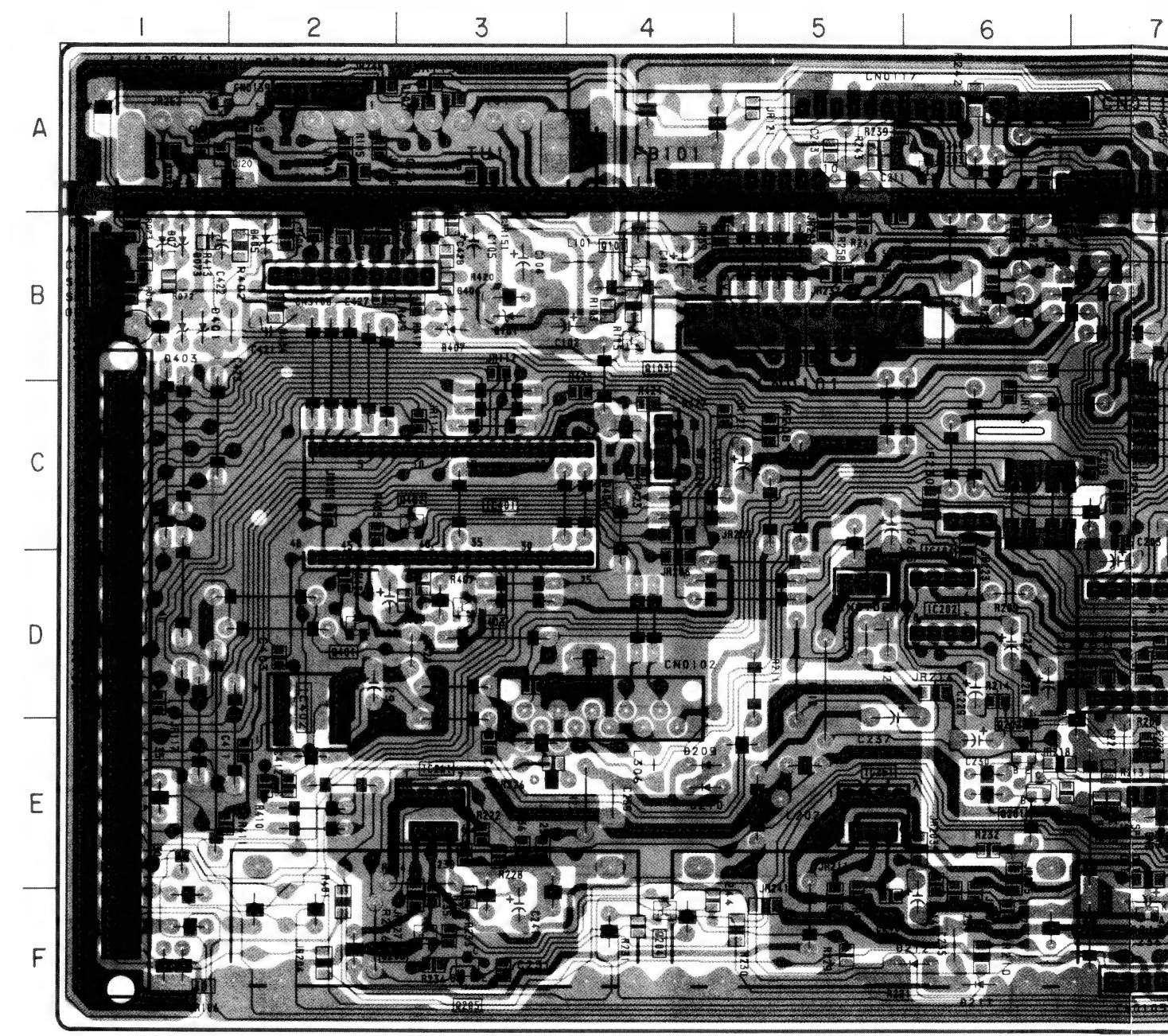
- J BOARD -

DIODE	
D903	B - 4
D904	A - 5
D907	A - 6
D908	B - 7
D909	B - 7
D910	B - 7
D911	B - 7
D912	A - 5
D913	A - 6
D914	B - 6
D915	C - 5
D916	C - 6
D917	B - 5
D924	B - 6
D925	C - 7
D926	C - 7
D927	C - 7
D928	D - 4



IC	
IC072	B-8
201	D-7
202	D-6
251	E-5
261	E-3
301	A-10
302	A-13
304	C-13
401	C-3
402	D-2
681	E-12
683	F-11
684	C-6
TRANSISTOR	
Q071	F-12
101	B-4
102	A-9
103	B-4
201	E-6
202	E-6
203	A-6
204	F-4
205	F-3
206	F-3
207	B-8
209	F-10
303	A-9
304	E-13
306	E-12
308	D-12
309	D-11
311	D-10
312	D-10
401	D-2
402	C-3
403	D-3
581	C-11
582	C-11
610	F-12
611	F-12
683	F-11
DIODE	
D068	B-9
069	A-1
071	B-1

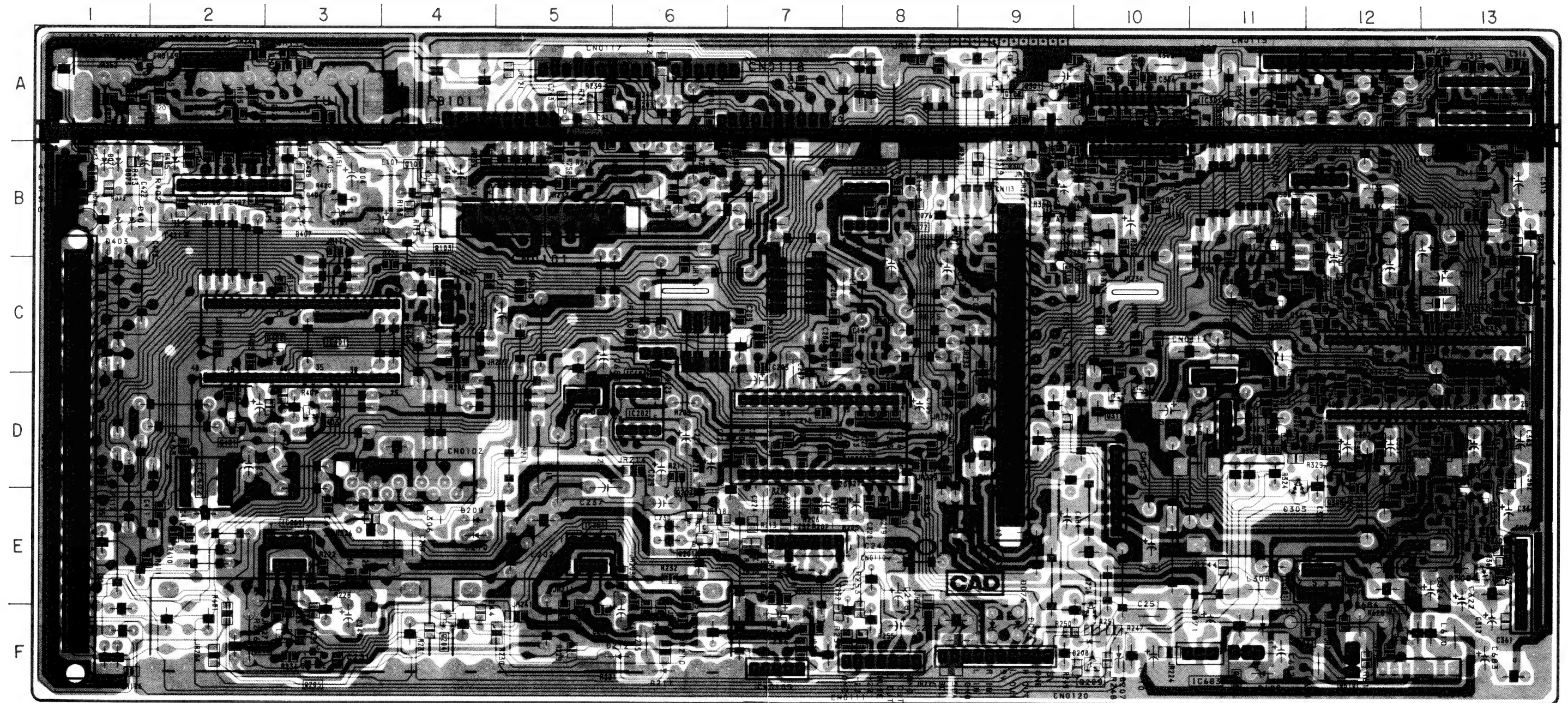
- A BOARD -



de which enables seeing.
side.

- A BOARD -

B-1
 A-1
 B-10
 B-9
 B-3
 A-9
 F-10
 F-10
 F-10
 E-4
 E-4
 F-6
 F-6
 F-7
 B-11
 A-12
 C-11
 B-13
 E-11
 E-13
 E-13
 B-10
 B-12
 C-11
 B-1
 B-1
 B-2
 B-3
 B-3
 C-12
 F-11
 F-11



Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

① PAL $1 \text{ V}_{p-p} \text{ (H)}$	① SECAM $1 \text{ V}_{p-p} \text{ (H)}$	① NTSC $1 \text{ V}_{p-p} \text{ (H)}$
② PAL $0.5 \text{ V}_{p-p} \text{ (H)}$	② SECAM $0.5 \text{ V}_{p-p} \text{ (H)}$	② NTSC $0.5 \text{ V}_{p-p} \text{ (H)}$
③ PAL NTSC $0.6 \text{ V}_{p-p} \text{ (H)}$	③ SECAM $1.1 \text{ V}_{p-p} \text{ (H)}$	④ PAL NTSC $0.8 \text{ V}_{p-p} \text{ (H)}$
⑤ SECAM $0.5 \text{ V}_{p-p} \text{ (H)}$	⑤ PAL SECAM $0.5 \text{ V}_{p-p} \text{ (H)}$	⑤ NTSC $0.5 \text{ V}_{p-p} \text{ (H)}$
⑥ $0.4 \text{ V}_{p-p} \text{ (H)}$	⑦ $1.4 \text{ V}_{p-p} \text{ (H)}$	⑧ $1.1 \text{ V}_{p-p} \text{ (H)}$
⑨ $0.8 \text{ V}_{p-p} \text{ (H)}$	⑩ $6.4 \text{ V}_{p-p} \text{ (H)}$	⑪ $1.1 \text{ V}_{p-p} \text{ (500KHz)}$
⑫ $2 \text{ V}_{p-p} \text{ (H)}$	⑬ $4 \text{ V}_{p-p} \text{ (V)}$	⑭ $7.6 \text{ V}_{p-p} \text{ (H)}$
⑮ $4 \text{ V}_{p-p} \text{ (H)}$	⑯ $3.4 \text{ V}_{p-p} \text{ (H)}$	⑰ $3.4 \text{ V}_{p-p} \text{ (H)}$

to the voltage value shown by the
 ✖ on the Schematic Diagram,
 another list.

	KV-X2561D KV-X2561A KV-X2561K	KV-X2560B KV-X2561B	KV-X2563E	KV-X2562U
06	4.7/50V	10/50V	4.7/50V	4.7/50V
11	—	0.001/50V	—	—
003	1	2.2	1	1
0101	—	—	20P	20P
201	TDA6612	TDA6612	TDA6612	TDA6622
101	IFH-389	IFH-389F	IFH-389	IFH-395
101	UV-916H	UV-916H	UV-916H	U-944C

- A BOARD IC201 TDA6622 (KV-X2562U only)

• A BOARD IC201 TDA6612

- A BOARD IC301 TDA9145

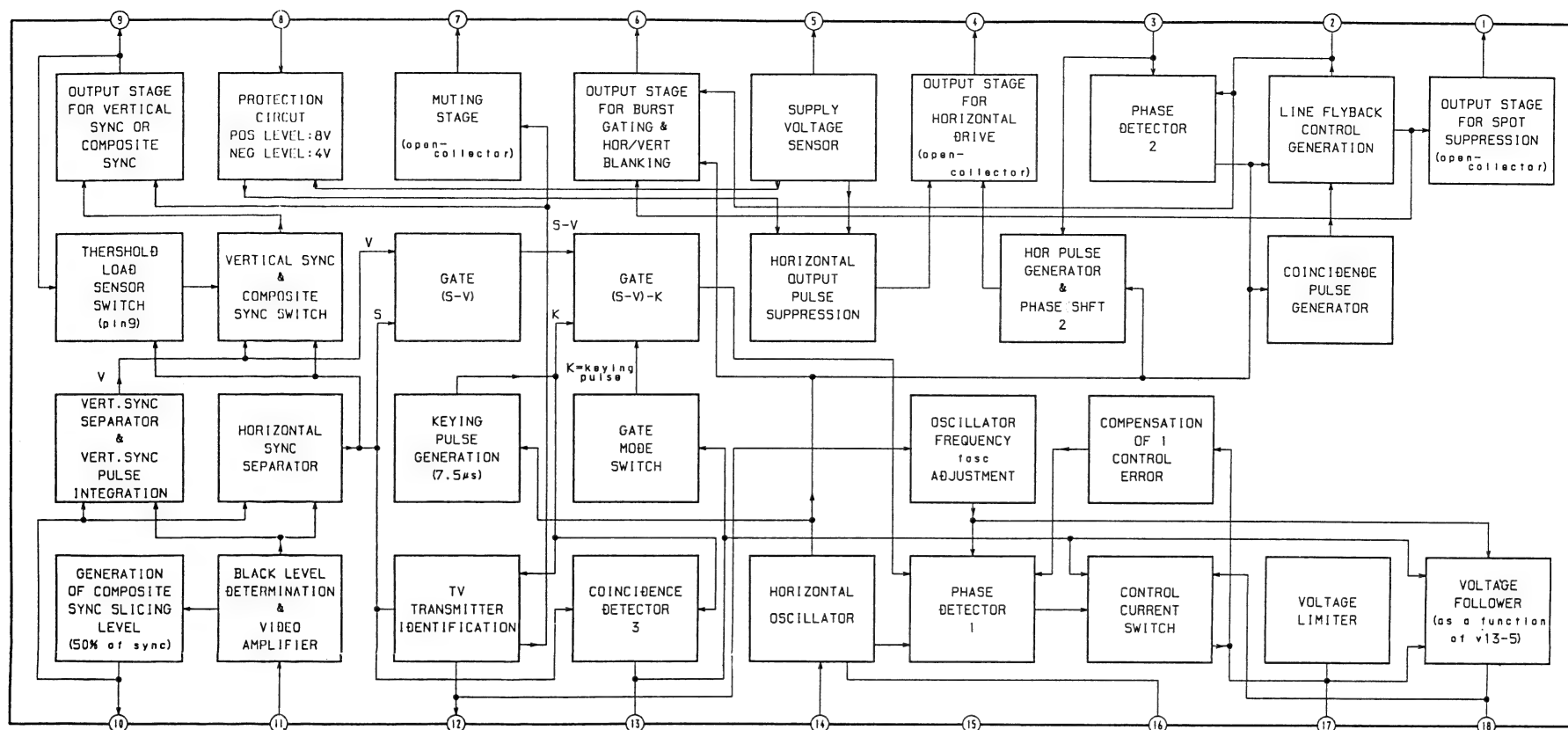
- A BOARD IC304 CXA1587S

- A BOARD IC251 TDA2052

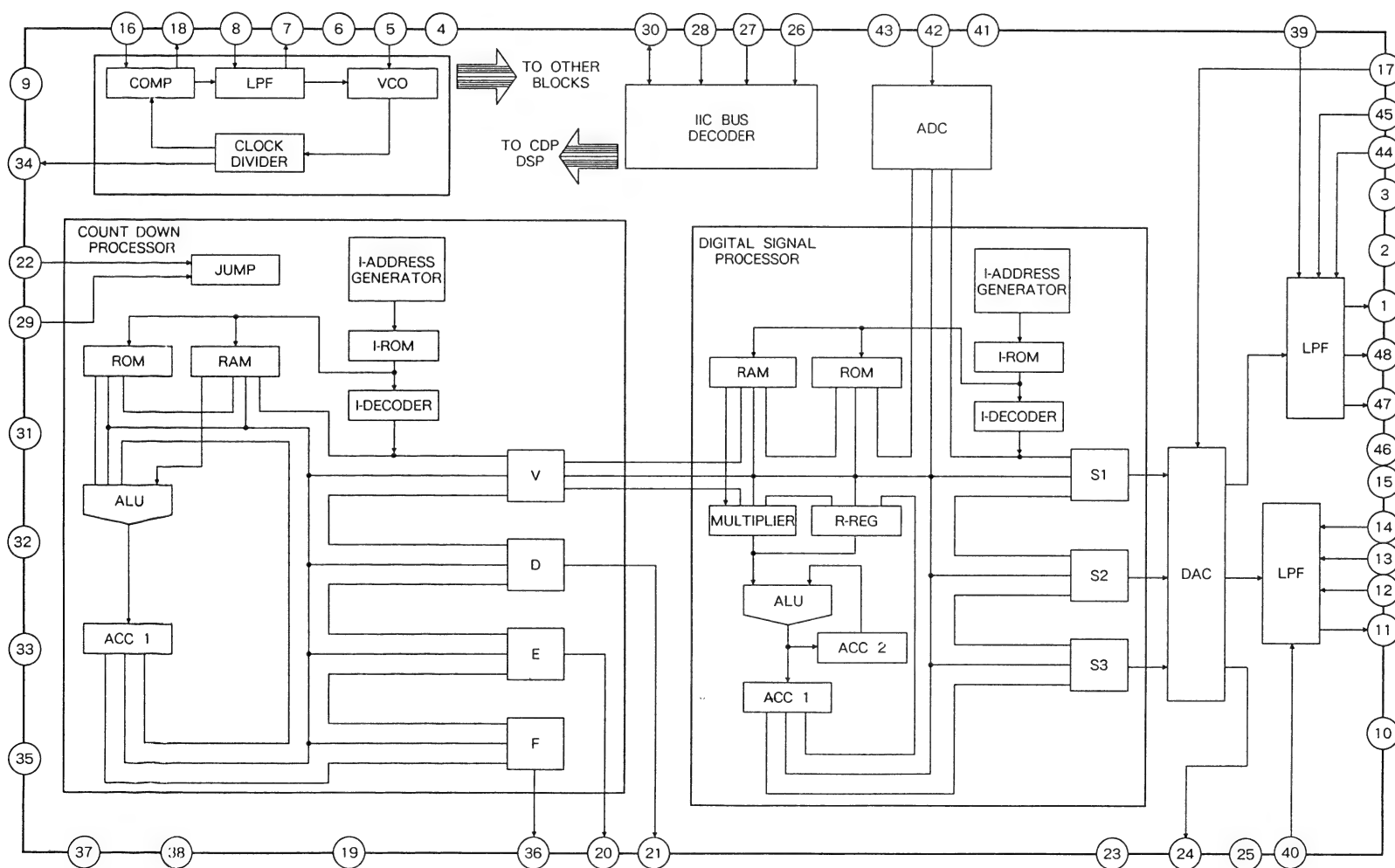
- A BOARD IC402 TEA2114

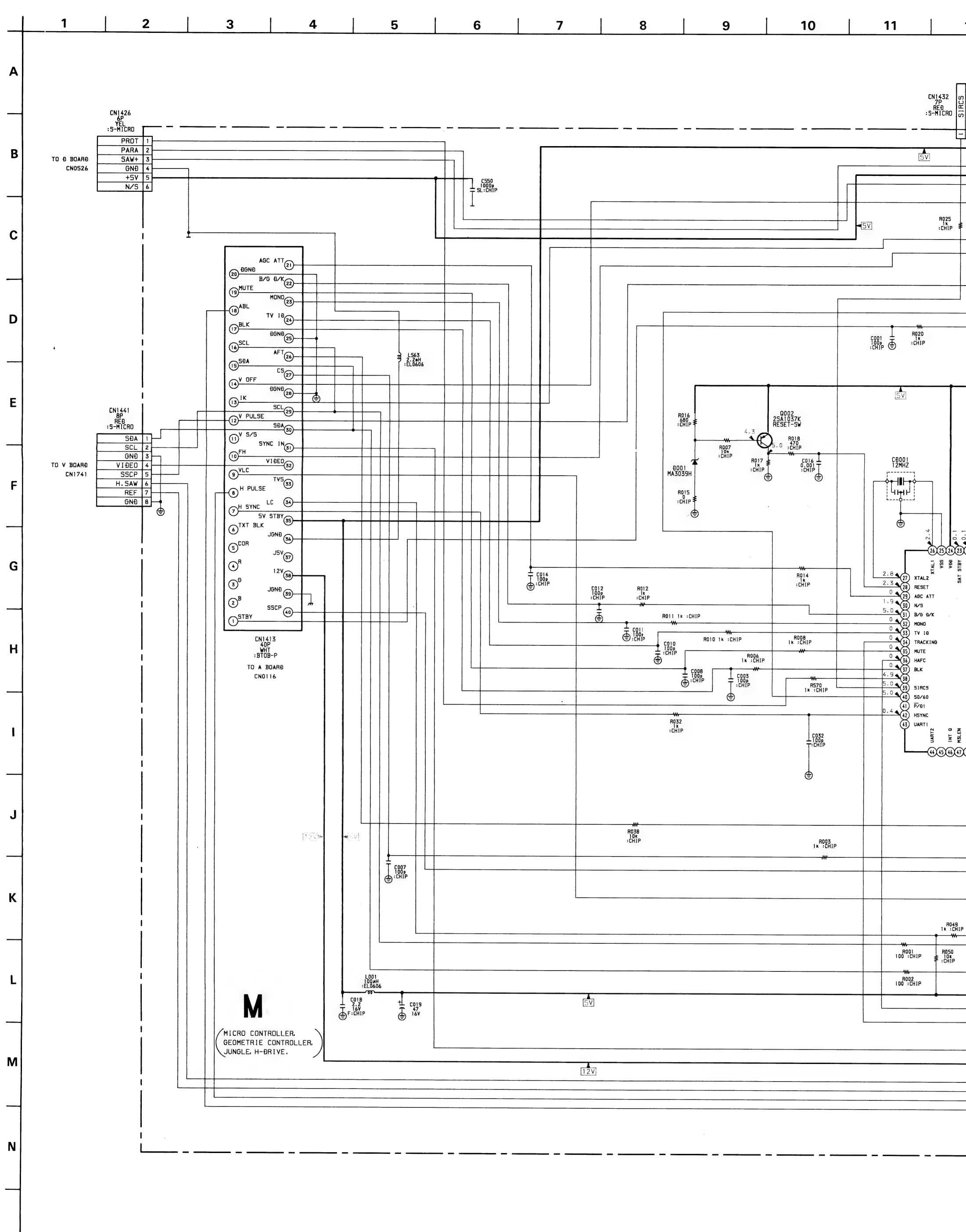
• A BOARD IC681 TDA8134

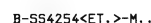
• M BOARD IC501 TDA2595-V9



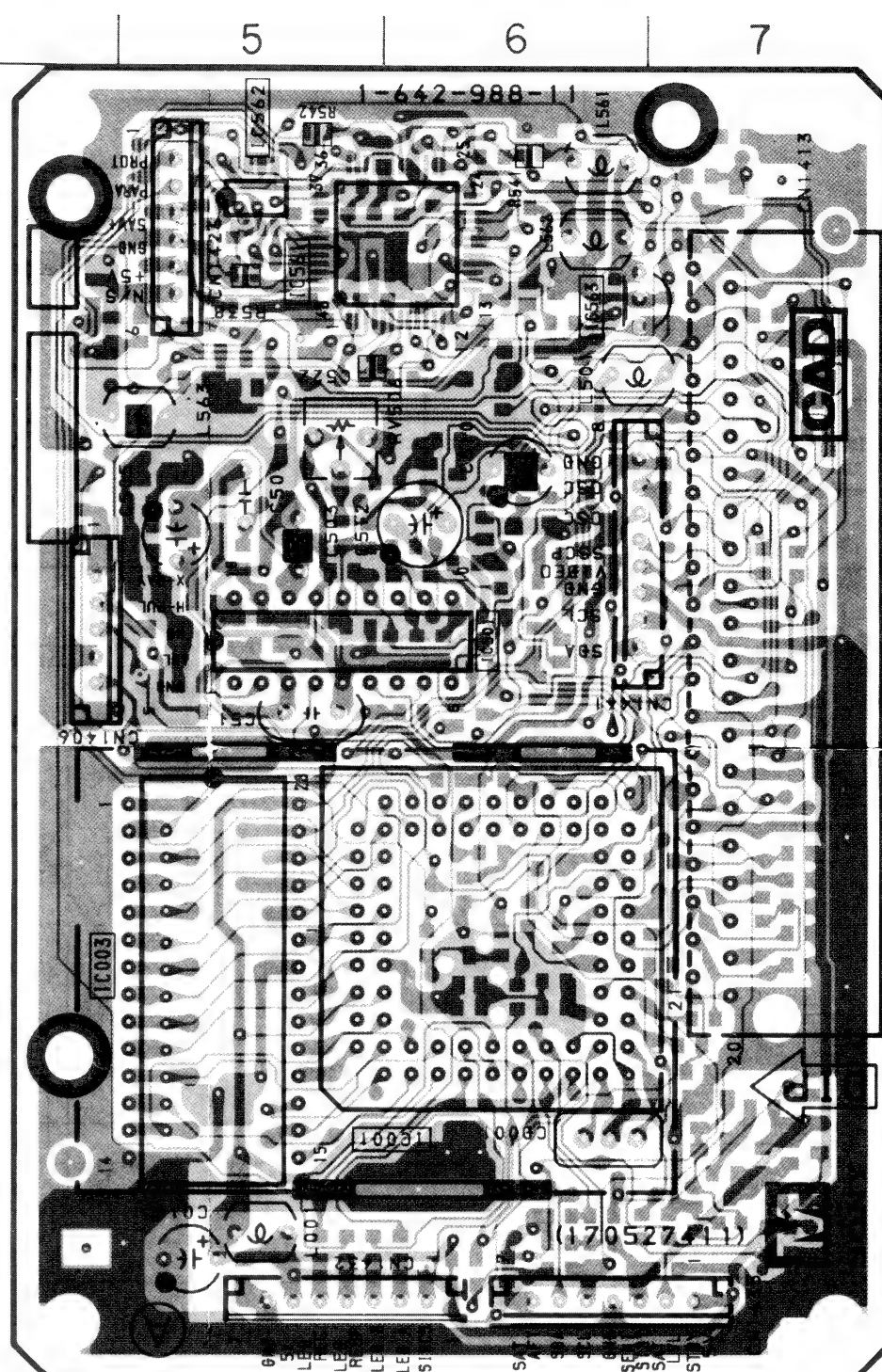
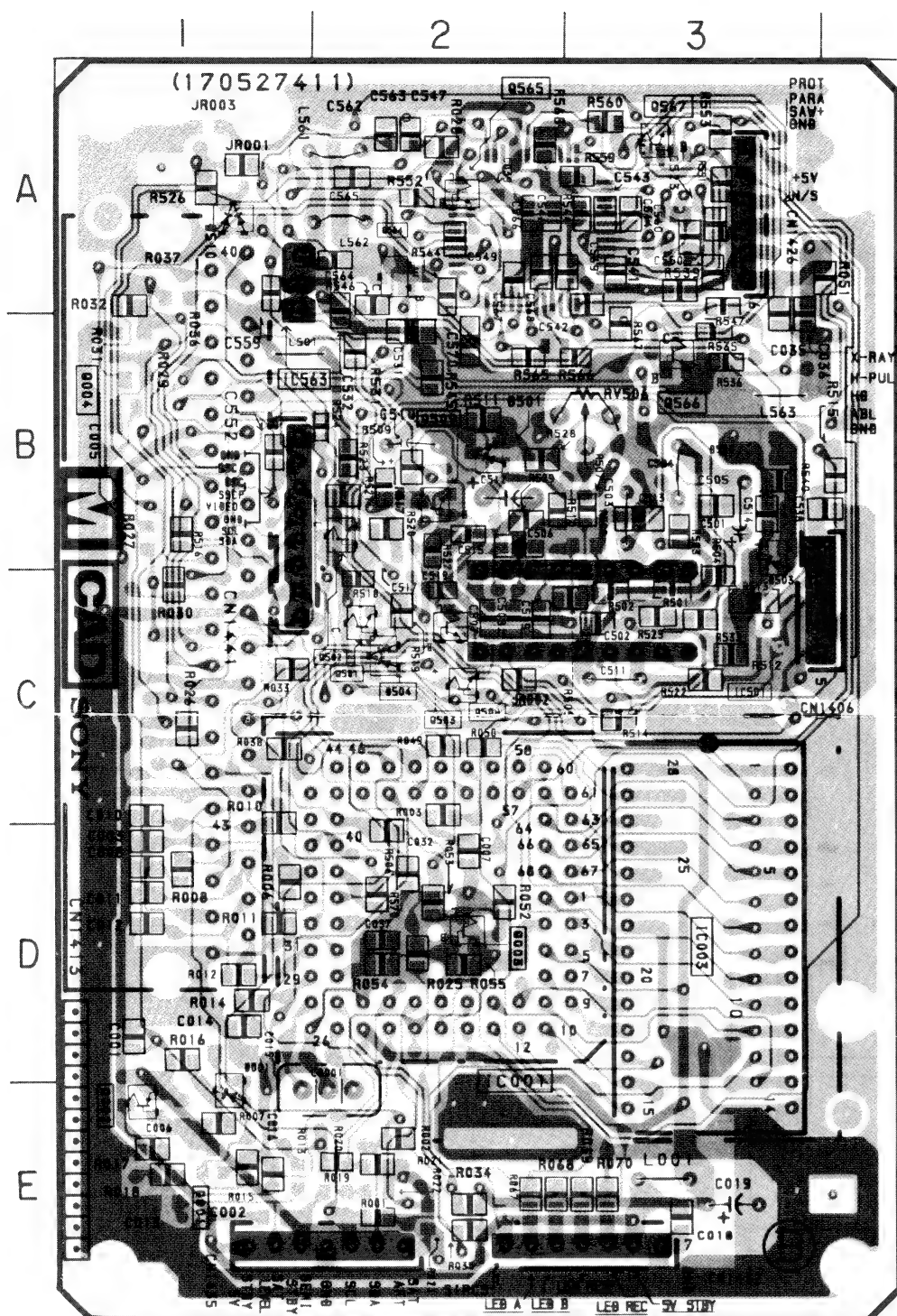
• M BOARD IC561 CXD2018Q








— M BOARD —

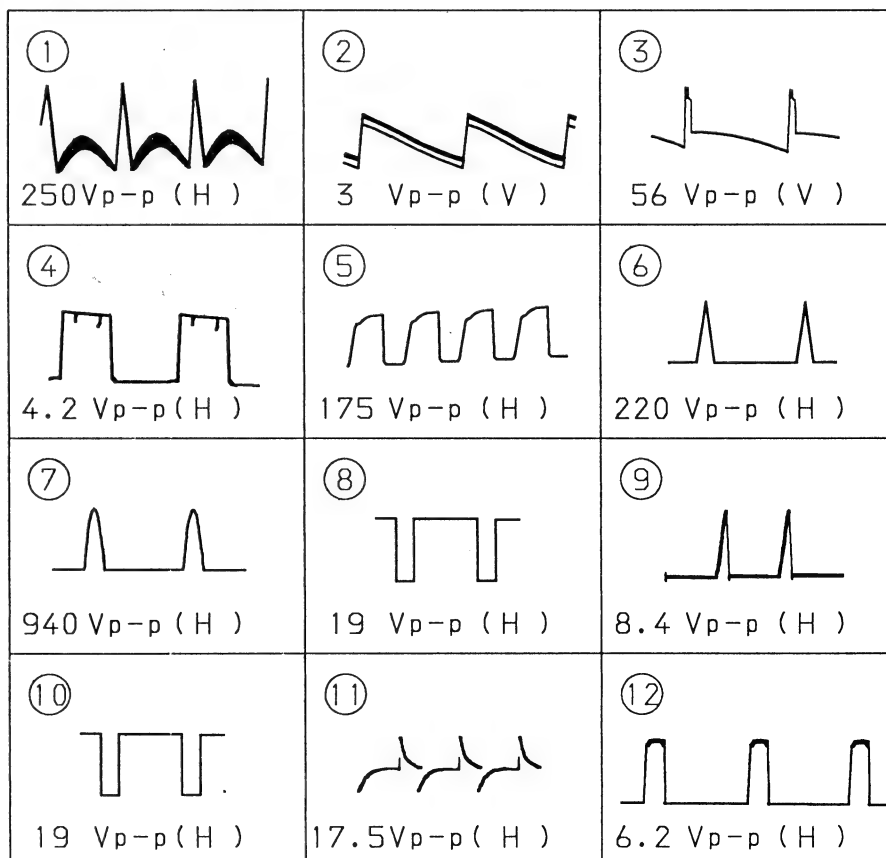


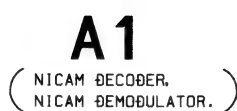
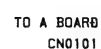
IC		DIODE	
IC001	D - 2	D001	E - 1
IC003	D - 3	D501	B - 1
IC501	C - 3	D503	B - 3
IC561	A - 6	D504	C - 2
IC562	A - 5	D510	A - 1
IC563	A - 1		
TRANSISTOR		VARIABLE RESISTOR	
Q002	E - 2	RV506	B - 3
Q003	D - 2		
Q501	C - 2		
Q502	B - 2		
Q503	C - 2		
Q508	C - 2		
Q509	B - 2		
Q564	A - 2		
Q565	A - 2		
Q566	B - 3		
Q567	A - 3		

Note :

- : Pattern from the side which enables seeing.
-  : Pattern of the rear side.

• WAVEFORMS D BOARD

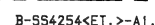




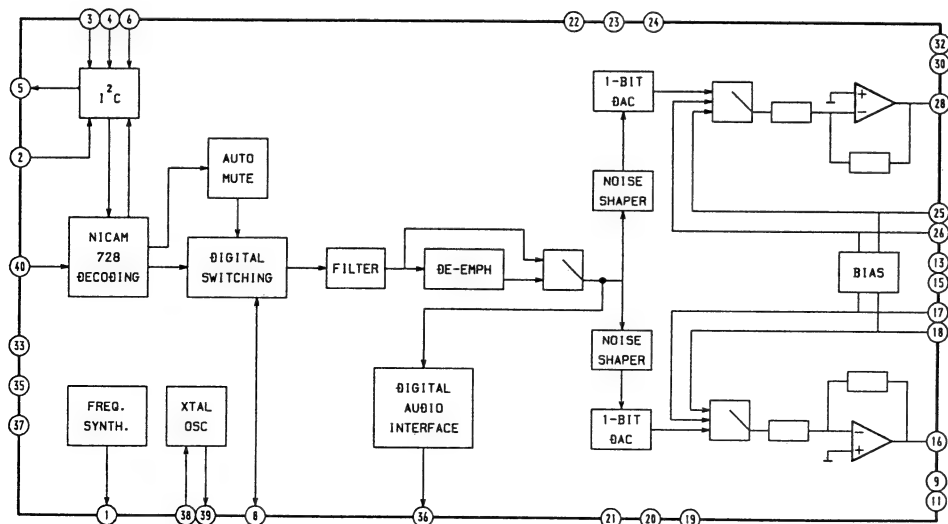
	KV-X2561K	OTHERS
IC01	SDA5248C2	SDA5248C1

The block diagram illustrates the internal architecture of the AD65400 receiver. Key components include:

- Input Stage:** The QPSKIN pin (1) connects to a LIMITER, which then feeds into the COSTAS LOOP QUADRATURE DEMODULATOR.
- Frequency Synthesis:** The CARRIER PHASE RECOVERY block receives signals from SF1 (pin 8) and CF1 (pin 5). The CARRIER OSCILLATOR block is connected to CAROSC (pin 10) and TEST (pin 19).
- Clock and Timing:** The CLKOSC pin (9) connects to a CLOCK OSCILLATOR, which feeds a TIMING GENERATOR. The TIMING GENERATOR provides CLK (pin 17) and CSM (pin 16) signals. A separate CLKIN pin (14) also feeds the TIMING GENERATOR.
- Processing Blocks:** The COSTAS LOOP QUADRATURE DEMODULATOR is also connected to a divider chain consisting of an X/2 block and a DIV/2 block. The BIT-RATE CLOCK RECOVERY block receives signals from IMC (pin 11), QMC (pin 11), and CLKLPF (pin 1). It provides feedback to the COSTAS LOOP QUADRATURE DEMODULATOR and the CARRIER PHASE RECOVERY block.
- Output Stage:** The DECODER AND PARALLEL TO SERIAL CONVERTER block receives inputs from the BIT-RATE CLOCK RECOVERY block and the CARRIER OSCILLATOR. Its output is connected to the DATA pin (15).
- Power and Control:** Power pins include VEEA (1), VCCA (2), VEEB (11), and VCCB (12). Control pins include CF0 (3), SF0 (4), SF1 (8), and CF1 (5).



- A1 BOARD IC1102 SAA7282P



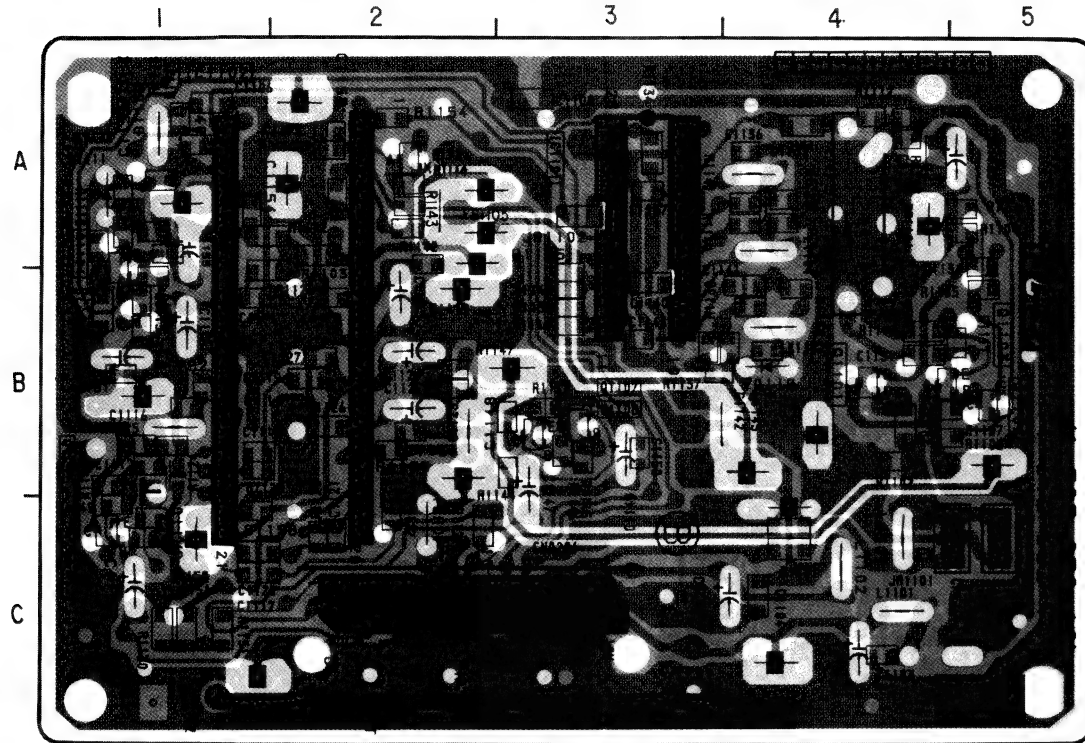
	KV-X2563E	KV-X2562U
BP1101	5.850MHz	6.552MHz
C1159	—	47P : CHIP
CF1101	—	6.0MHz
CF1102	5.5MHz	—
JR1101	0 : CHIP	—
L1105	—	15 μ H
X1102	11.700MHz	13.104MHz

A1 [NICAM DECODER,
NICAM DEMODULATOR]


V [TEXT]

C [R. G. B OUT]

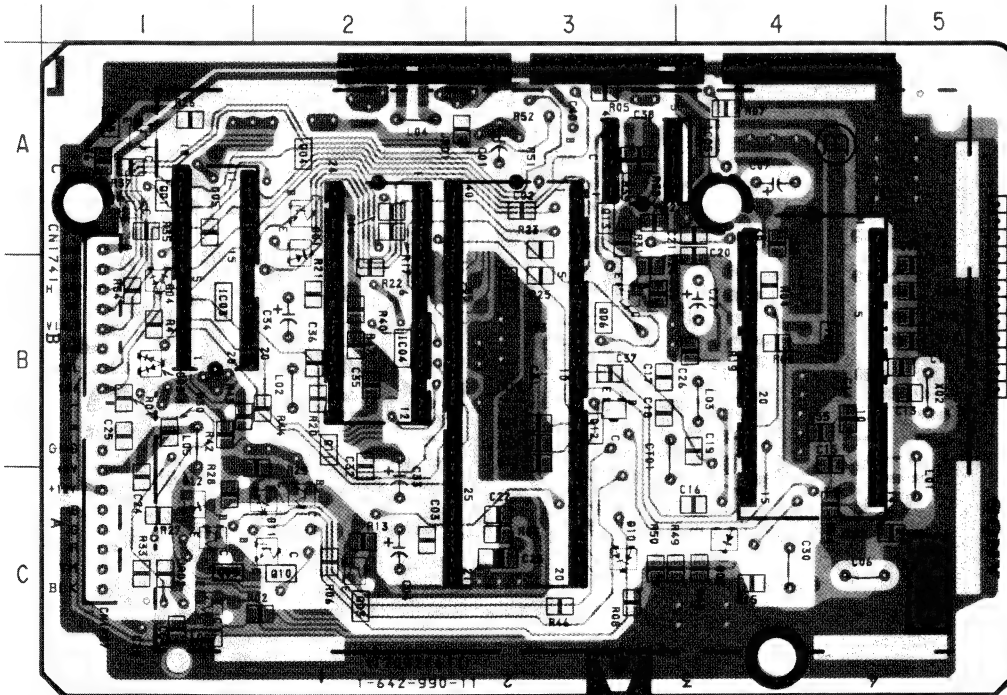
– A1 BOARD –



Note :

-  : Pattern from the side which enables seeing.
- : Pattern of the rear side.

— V BOARD —

IC

IC1101	A - 3
IC1102	B - 2

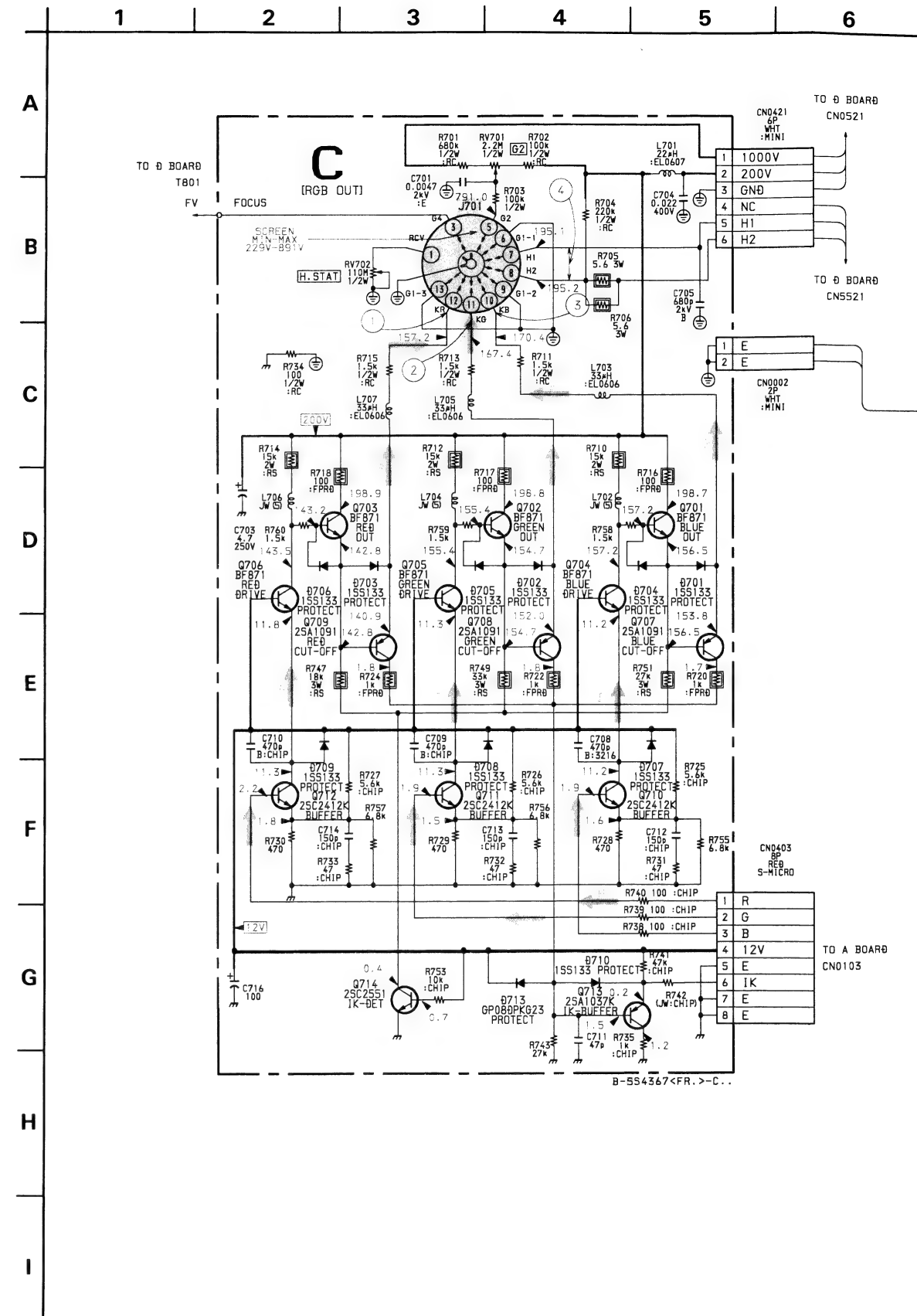
TRANSISTOR

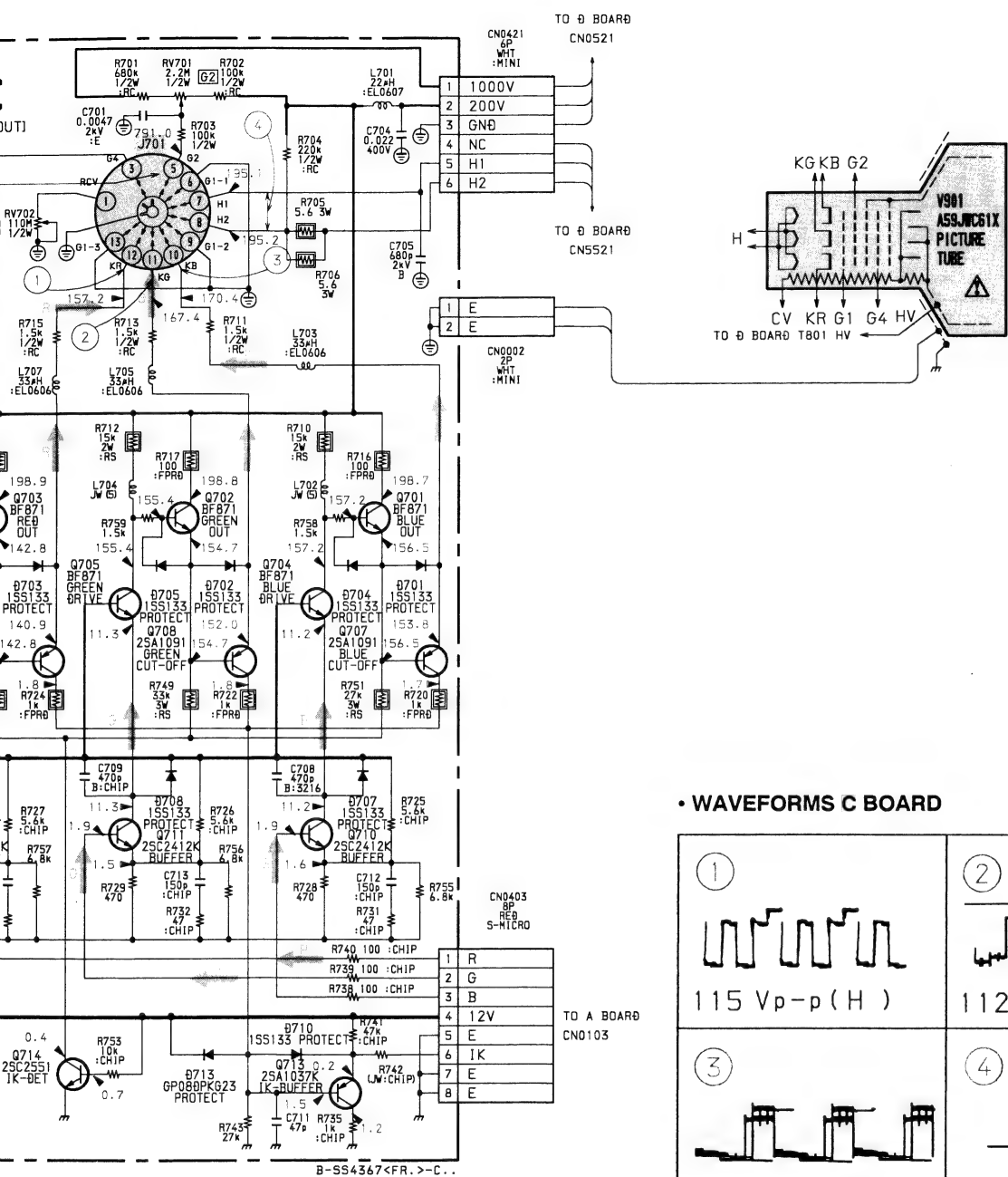
Q1101	B - 4
Q1102	B - 5
Q1103	B - 5
Q1104	A - 1
Q1105	B - 1
Q1106	C - 1
Q1107	B - 3
Q1108	B - 3

DIODE

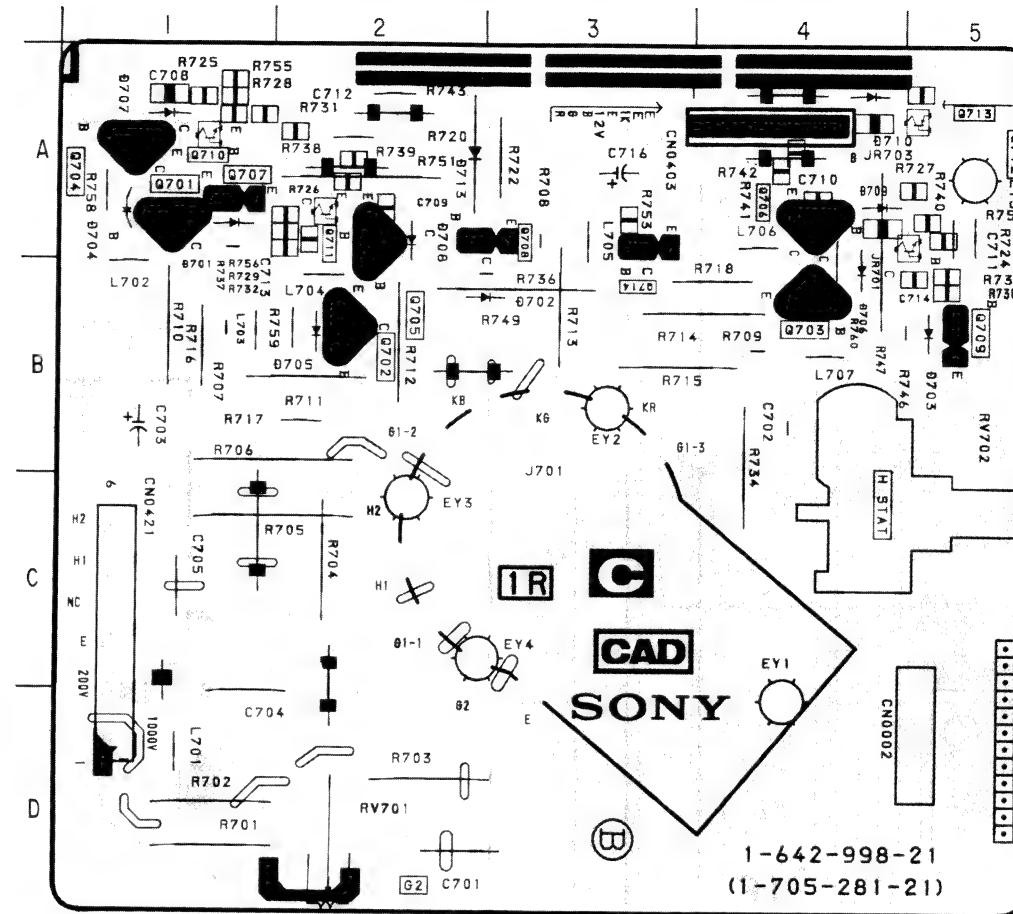
D1101	A - 2
D1102	A - 1
D1103	B - 4

IC		Q08	A - 1
		Q09	C - 1
IC01	B - 3	Q010	C - 2
IC02	B - 4	Q011	C - 2
IC03	B - 1	Q012	C - 3
IC04	B - 2		
IC05	A - 4		
TRANSISTOR		DIODE	
		D01	B - 2
Q01	A - 1	D03	B - 1
Q03	C - 2	D04	B - 1
Q04	B - 2	D09	C - 4
Q06	B - 3	D010	C - 3
Q07	C - 1	D011	C - 2
		D012	C - 1





- C BOARD -



TRANSISTOR

Q701	A - 1
Q702	B - 2
Q703	B - 4
Q704	A - 1
Q705	B - 2
Q706	A - 4
Q707	A - 1
Q708	A - 3
Q709	B - 5
Q710	A - 1
Q711	A - 2
Q712	A - 5
Q713	A - 5
Q714	A - 3

DIODE

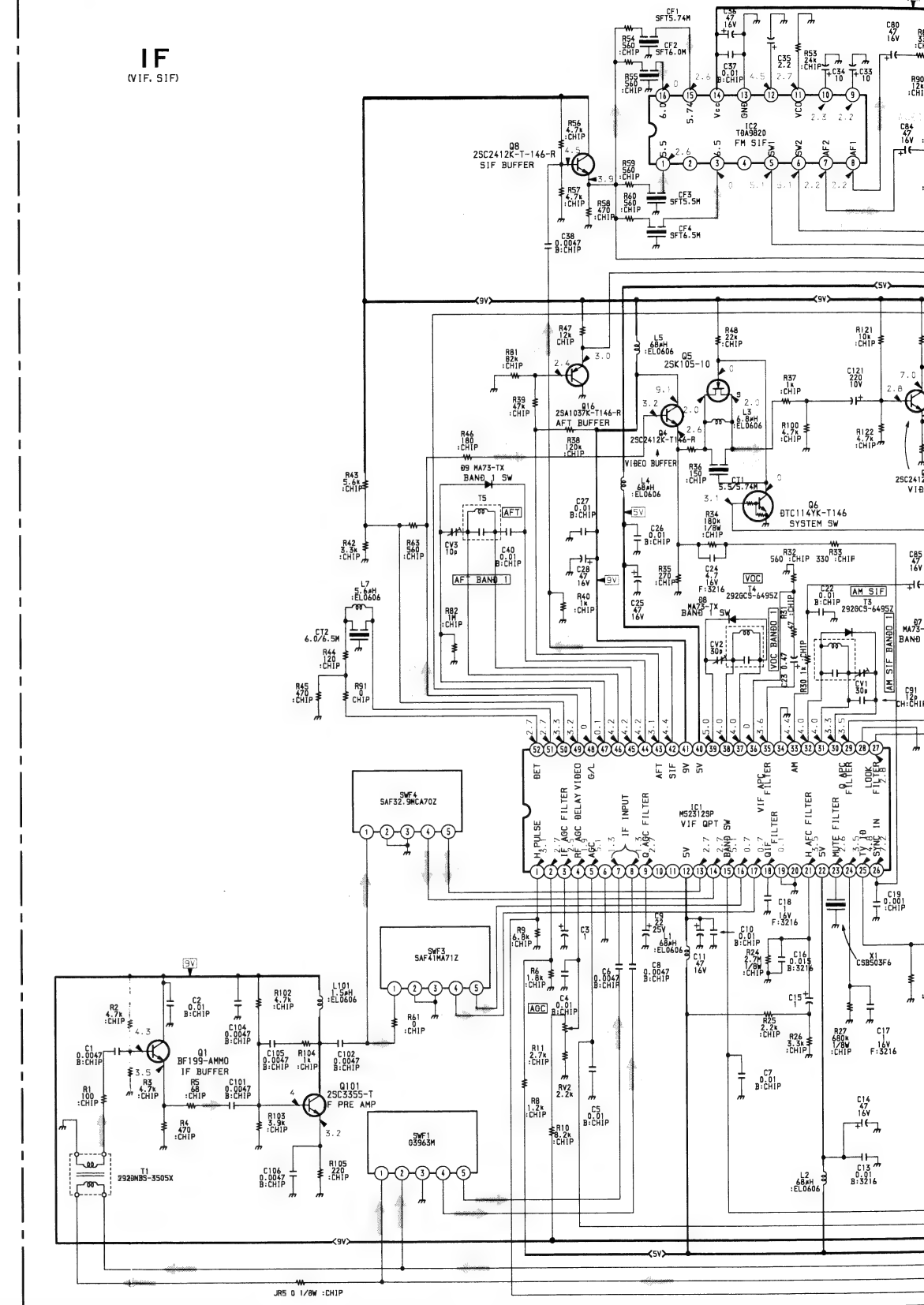
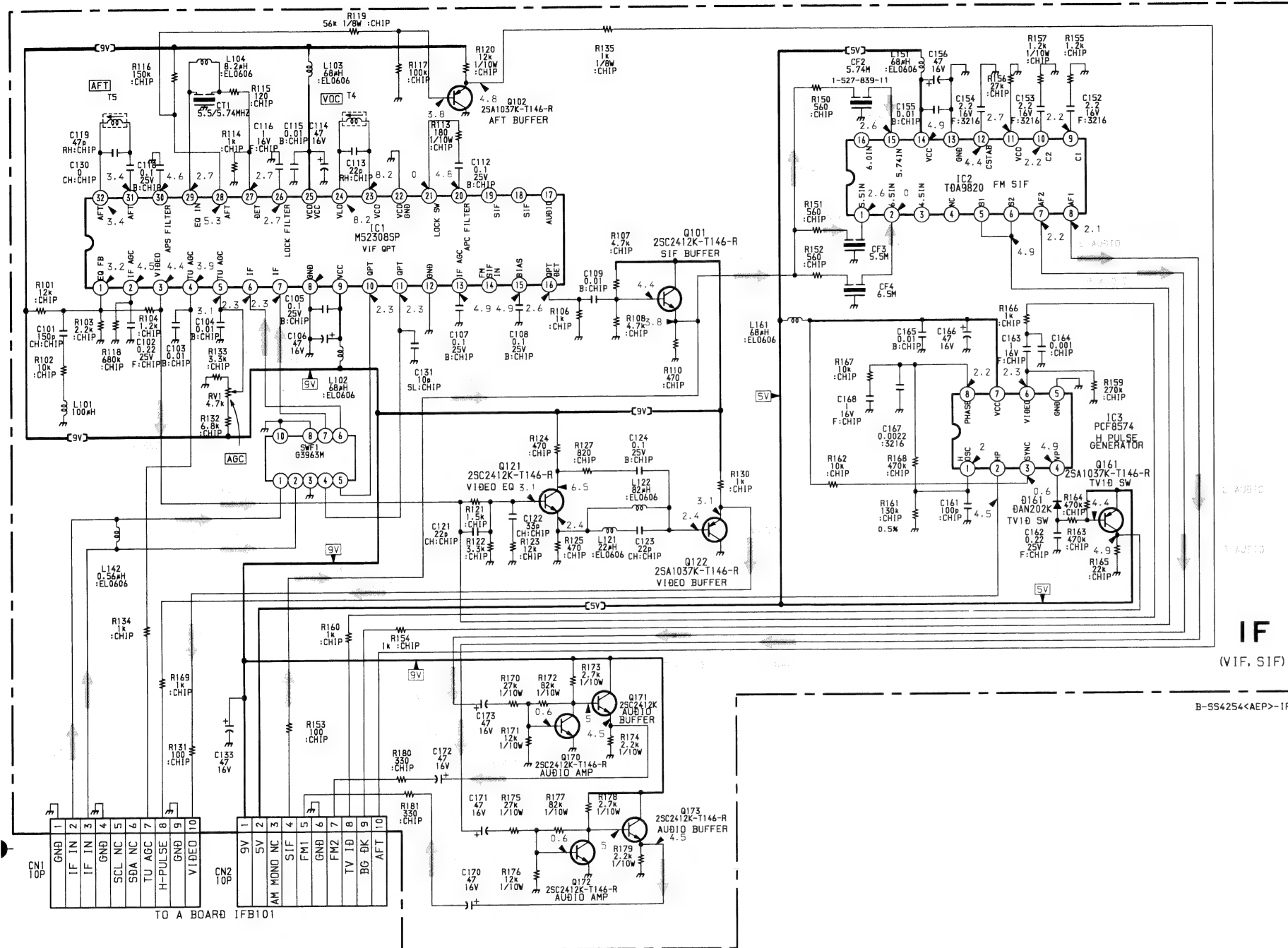
D701	A - 1
D702	B - 3
D703	B - 5
D704	A - 1
D705	B - 2
D706	B - 4
D707	A - 1
D708	A - 2
D709	A - 4
D710	A - 4
D713	A - 2

VARIABLE RESISTOR

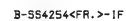
RV701	D - 2
RV702	C - 4

IFH389S

IFH389



B-SS4254<FR.>-IF.



The block diagram illustrates the internal components of a stereo receiver. On the left, a multi-pin connector (pins 3, 1, 16, 2) provides input signals to a switch assembly. This assembly routes signals to two parallel processing channels. Each channel consists of a 7-STAGE LIMITER-AMPLIFIER, followed by a mixer (represented by a circle with an 'X'), and a Variable Frequency Oscillator (VCO1 and VCO2). A central CONTROL UNIT manages the VCOs and provides feedback to the limiters. The output of each channel passes through a filter (wavy lines) and an amplifier (triangle) before being summed at a final output stage (circles with '+' and '-' signs). A SUPPLY block at the bottom provides power to the system, with a MUTE line connecting it to the output stage. A multi-pin connector at the bottom (pins 13, 14, 12, 11) provides additional input signals. The diagram is labeled with various component names and signal paths, and is identified by the number 10 in the bottom right corner.

```

graph LR
    1((1)) --- HOSC[H. OSC]
    HOSC --- 2((2))
    HOSC --- GND1[Ground]
    2 --- PHASECOMP[PHASE COMP]
    PHASECOMP --- 3((3))
    PHASECOMP --- 4((4))
    PHASECOMP --- 5((5))
    PHASECOMP --- 6((6))
    PHASECOMP --- GND2[Ground]
    3 --- VSEPA[V. SEPA]
    VSEPA --- 4
    VSEPA --- GND3[Ground]
    5 --- SYNCSEPA[SYNC SEPA]
    SYNCSEPA --- 6
    SYNCSEPA --- GND4[Ground]
    8((8)) --- 1
  
```

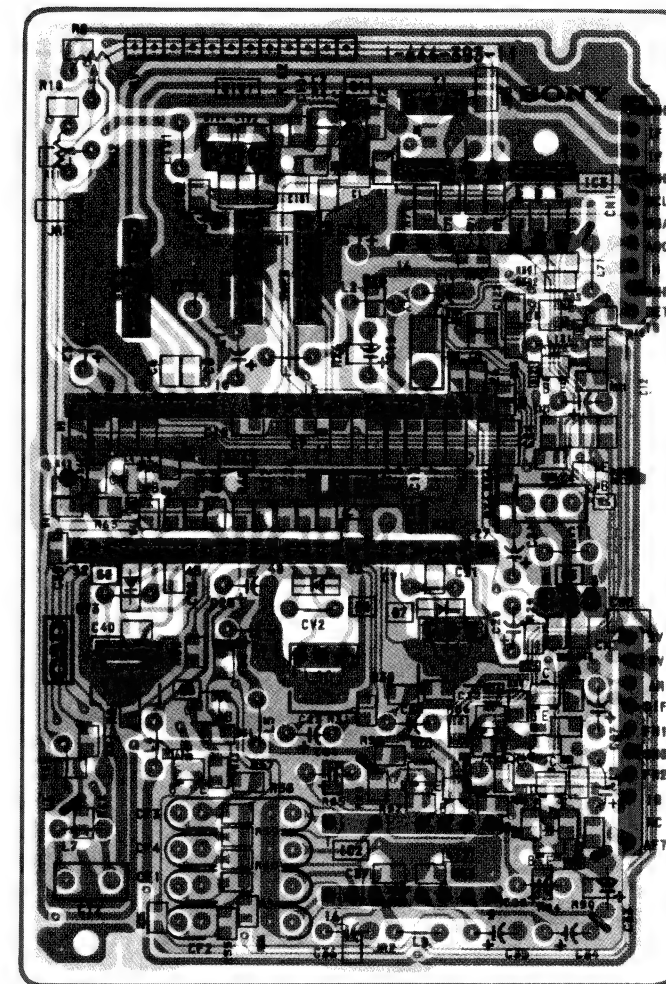
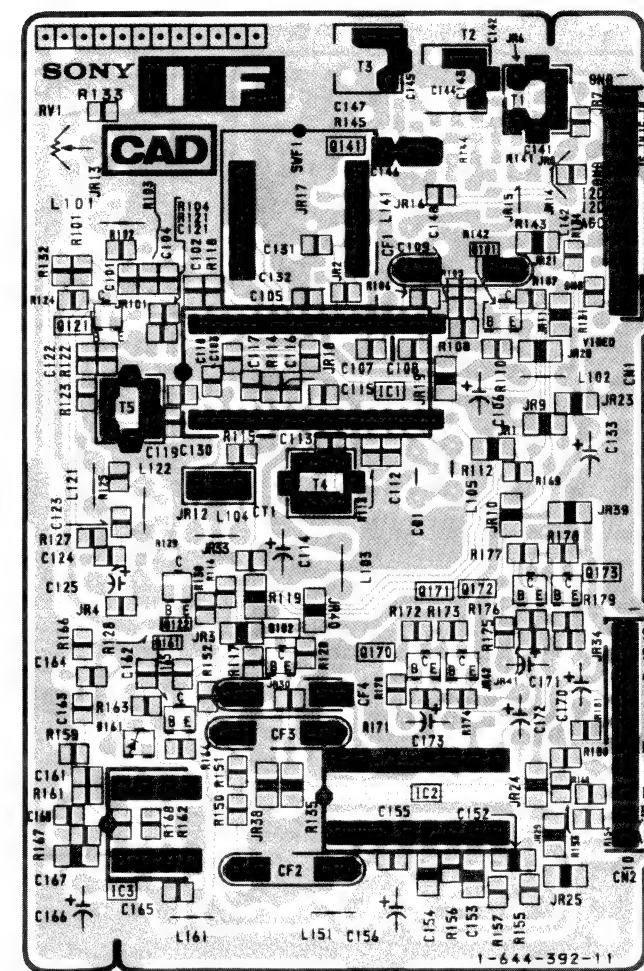
The block diagram illustrates the I²C interface circuit for the 6805 microcontroller. The microcontroller's pins are connected as follows:


- Pin 13:** Connected to the **INTERRUPT LOGIC** block.
- Pin 1:** Connected to the **INPUT FILTER** block.
- Pin 2:** Connected to the **I²C BUS CONTROL** block.
- Pin 3:** Connected to the **I²C BUS CONTROL** block.
- Pin 14:** Connected to the **INPUT FILTER** block.
- Pin 15:** Connected to the **INPUT FILTER** block and the **I²C BUS CONTROL** block.
- Pin 16:** Connected to the **POWER-ON RESET** block.
- Pin 8:** Connected to the **POWER-ON RESET** block.

The internal components and their connections are:

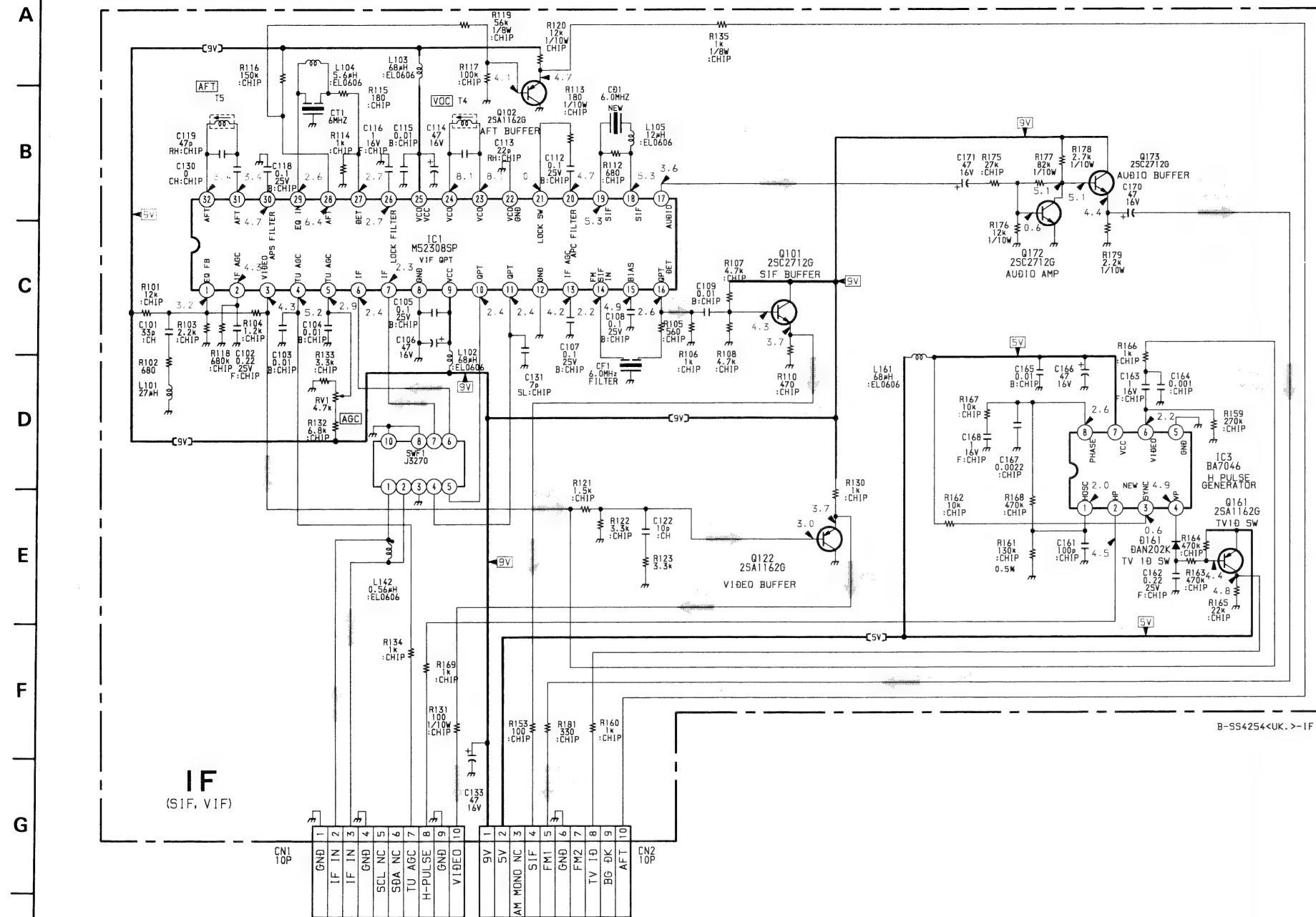
- INPUT FILTER:** Receives signals from pins 1, 2, 14, and 15. It outputs to the **I²C BUS CONTROL** block.
- INTERRUPT LOGIC:** Receives a signal from pin 13 and outputs to the **I²C BUS CONTROL** block.
- I²C BUS CONTROL:** Receives signals from the **INPUT FILTER** and **INTERRUPT LOGIC**. It has bidirectional communication with the **SHIFT REGISTER** and the **I/O PORTS**. It also receives a **Write pulse** from the **SHIFT REGISTER** and a **read pulse** from the **I/O PORTS**.
- SHIFT REGISTER:** A 16-bit shift register that interfaces with the **I²C BUS CONTROL** and the **I/O PORTS**. It provides a **Write pulse** to the **I²C BUS CONTROL**.
- I/O PORTS:** An 8-bit port that interfaces with the **SHIFT REGISTER** and the external **LP FILTER**. It provides a **read pulse** to the **I²C BUS CONTROL**.
- LP FILTER:** A low-pass filter that receives a signal from the **I/O PORTS** and outputs to the **INTERRUPT LOGIC**.

— IF BOARD —

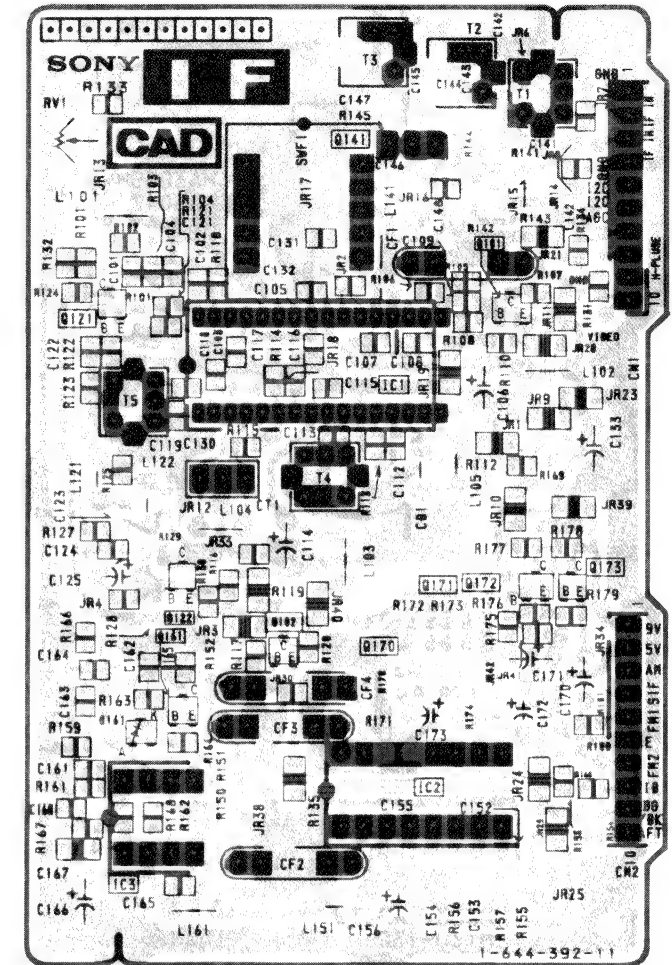


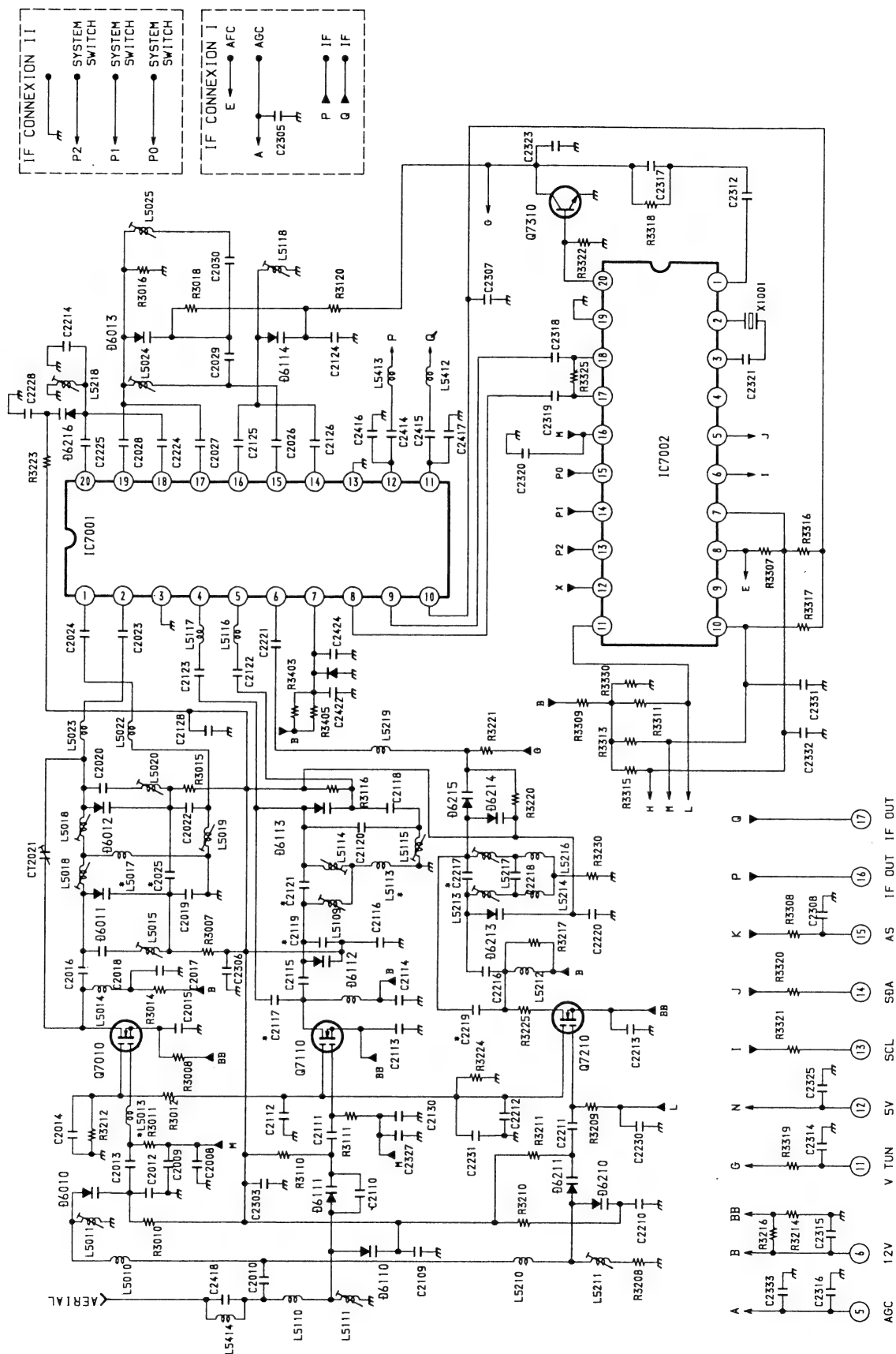
- : Pattern from the side which enables seeing.
-  : Pattern of the rear side.

IFH395 (KV-X2562U only)



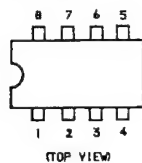
- IF BOARD - (KV-X2562U only)





5-6. SEMICONDUCTORS

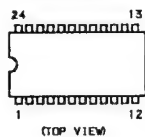
BA7046
LM358D
LM393P
TDA2822-M
TDA4605-3
TEA2114
X24C16P



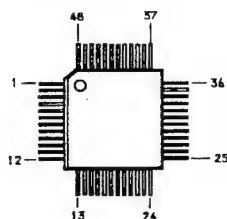
CXA1545AS
CXA1587S



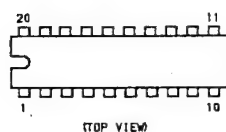
CXD1050A-15P
TDA9145/N1



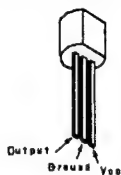
CXD2018Q



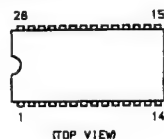
MCM514256AP80
TDA8732



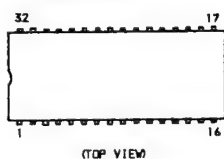
MC78L05ACPRP
MC78L12ACPRP



M27C512-20B1-AE27
SDA5231-2
TDA6612
TDA6622



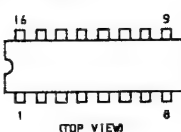
M52308SP



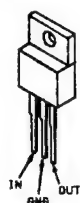
M52312SP



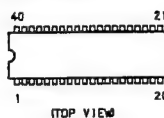
PCF8574
TDA9820



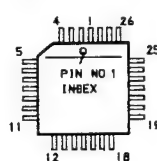
RC7809FA



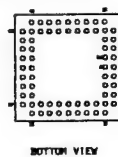
SAA7282P
SDA5248C1



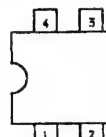
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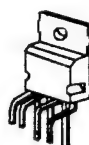
SDA30C162



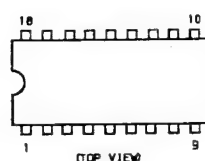
SFH617G-1



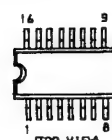
TDA2052
TDA8138A
TDA8179S



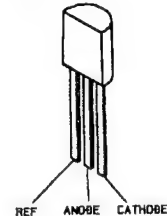
TDA2595/V9



TDA4660V2



TL431CLP



BF199-AMM0



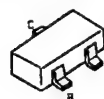
BF871



BUZ91A-E3155



DA116-T146
DTA124EK
DTA144EK
DTA144TK
DTC114EK
DTC124EK
DTC144EK
2SA1162-G
2SC1623-LSL6
2SC2413KQ



2SA1306A-Y
2SC3298B-Y



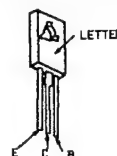
2SA733K
2SA1091-0
2SC2551-0



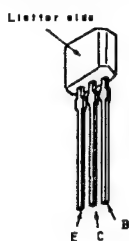
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2SB774-34



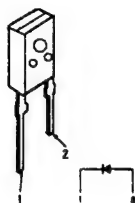
2SB772-Q
2SC2688-LK



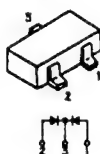
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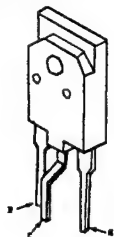
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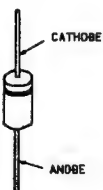
MA152WK



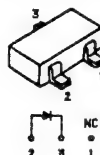
2SC4927-01



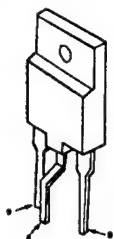
EGP20G
RGP02-17
RGP02-20EL-6394
RU-3AM
RU-30ALFS1
R2K



MA3039H-TX
MA3047L-TX
RØ5.6M-B2



2SK1916-53-F50



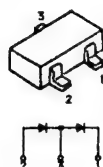
U05G



ESAB92-02
ESB85-009



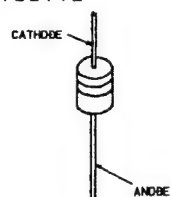
15S226



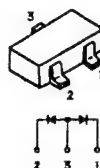
Ø10SC6M



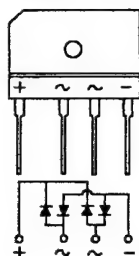
HZS3.6NB1TØ
MTZJ-13C
MTZJ-3.3
MTZJ-9.1
MTZJ-30B
MTZJ-33C
MTZJ-39C
MTZJ-T-72-2.2A
RØ12ES-B2
RØ5.6ES-B1
RØ5.6ES-B2
RØ6.2ES-B2
RØ7.5ES-B2
15S119



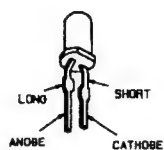
152836



Ø4SB60L-F



LØ-201VR



SECTION 6 EXPLODED VIEWS

NOTE:

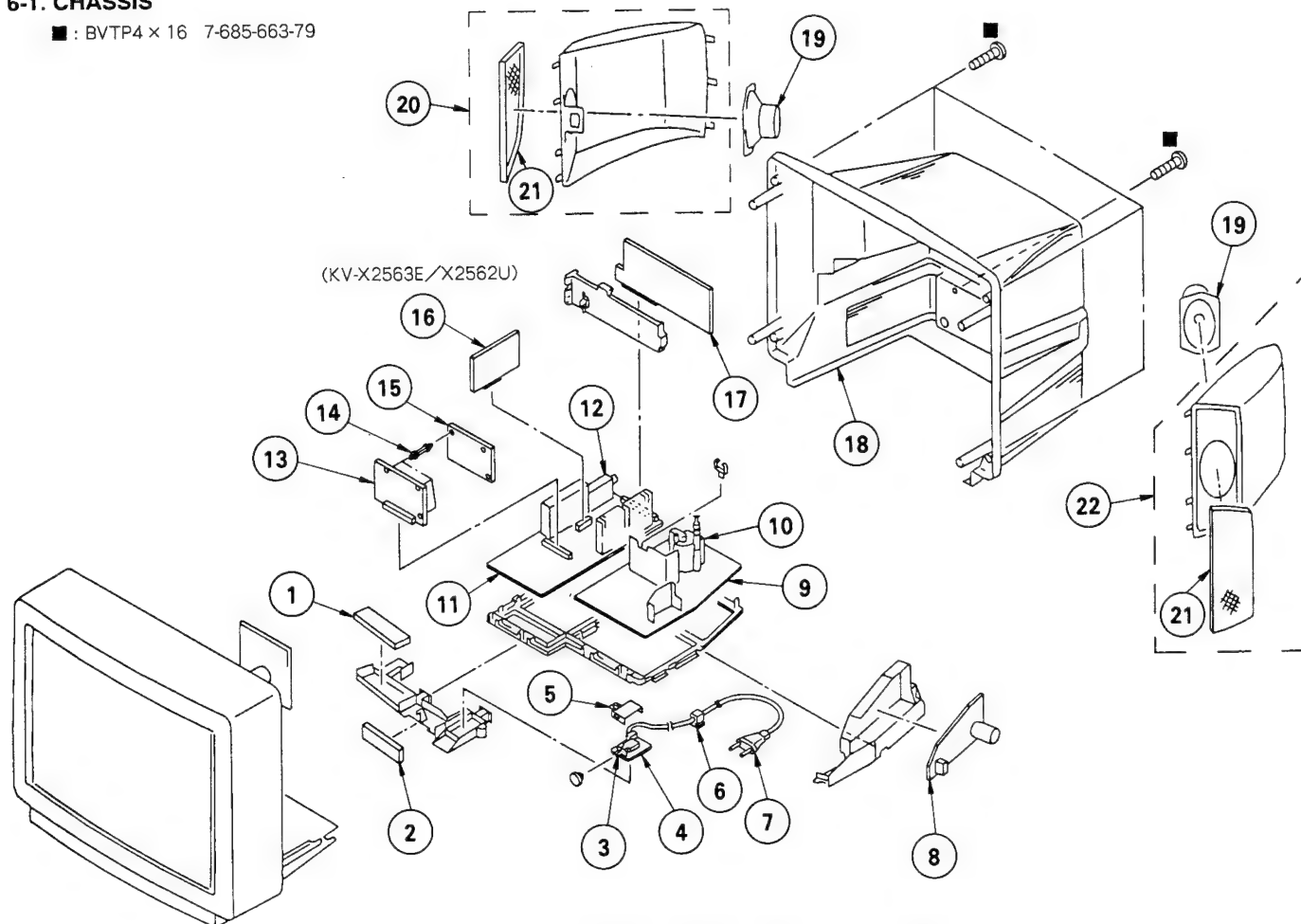
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

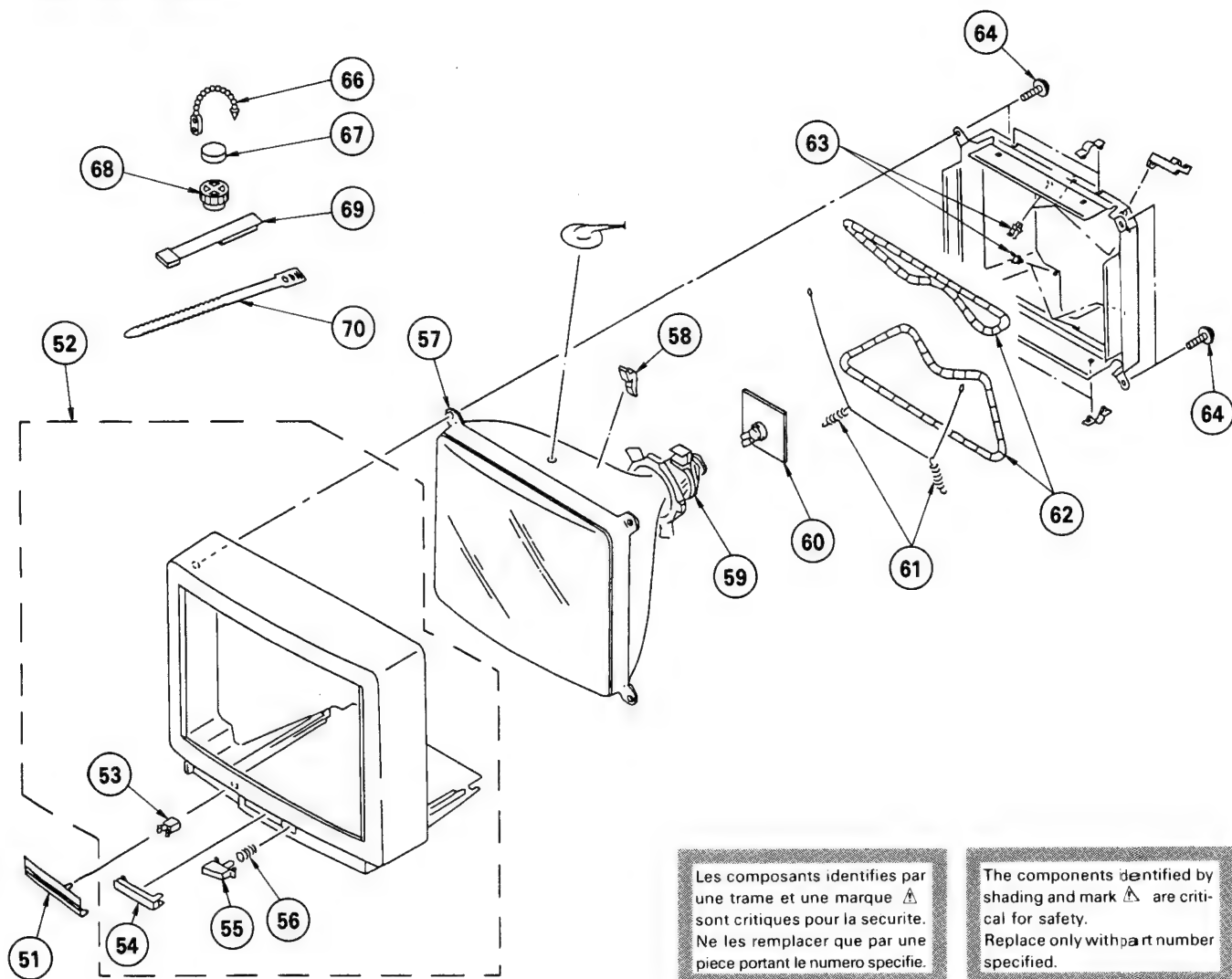
6-1. CHASSIS

■ : BVTP4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*1-643-004-21	H1 BOARD		11	*A-1632-121-A	A BOARD, COMPLETE (KV-X2560B, X2561B)	
2	*1-642-997-11	H2 BOARD			*A-1632-109-A	A BOARD, COMPLETE	
3	Δ 1-571-433-12	SWITCH, PUSH (AC POWER)				(KV-X2561A, X2561D, X2561K)	
4	*A-1624-009-A	F1 BOARD, COMPLETE			*A-1632-120-A	A BOARD, COMPLETE (KV-X2562U)	
5	4-036-633-01	COVER, POWER SWITCH			*A-1632-119-A	A BOARD, COMPLETE (KV-X2563E)	
6	Δ 4-389-201-04	HOLDER, AC CORD		12	Δ 1-693-185-11	TUNER (UV916H)	
7	Δ 1-590-460-11	CORD, POWER (WITH CONNECTOR)				(KV-X2560B, X2561A, X2561B, X2561D, X2561K, X2563E)	
		(KV-X2560B, X2561B, X2561K, X2563E)			Δ 1-693-184-11	TUNER (U944C) (KV-X2562U)	
	Δ 1-690-296-11	CORD, POWER (WITH NOISE FILTER)		13	*A-1635-007-A	M BOARD, COMPLETE	
		(KV-X2561A)		14	*3-682-419-01	HOLDER, P.C.B	
	Δ 1-590-501-11	CORD, POWER (WITH NOISE FILTER)		15	*A-1645-024-A	V BOARD, COMPLETE	
		(KV-X2561D)		16	*A-1630-110-A	A1 BOARD, COMPLETE (KV-X2562U)	
	Δ 1-590-762-11	CORD, POWER (WITH PLUG) (KV-X2562U)			*A-1630-111-A	A1 BOARD, COMPLETE (KV-X2563E)	
8	*A-1624-010-A	F2 BOARD, COMPLETE		17	*A-1651-046-A	J BOARD, COMPLETE	
9	*A-1642-075-A	D BOARD, COMPLETE		18	4-034-786-01	COVER, REAR	
10	Δ 1-453-118-11	TRANSFORMER ASSY, FLYBACK (UX-2600A2)		19	1-544-727-11	SPEAKER (7.5X13CM)	
				20	X-4200-088-1	BAFFLE (L) ASSY, BOARD	21
				21	X-4200-097-1	GRILLE ASSY	
				22	X-4200-087-1	BAFFLE (R) ASSY, BOARD	21

6-2. PICTURE TUBE



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-200-889-02	DOOR (KV-X2560B,X2561A,X2561B,X2561D,X2561K)		61	4-303-774-21	SPRING, GROUND WIRE	
52	4-200-889-12	DOOR (KV-X2562U,X2563E)		62	Δ 1-402-746-21	COIL, DEGAUSSING	
53	X-4031-103-1	CABINET ASSY (WITH BEZEL ASSY)	53-56	63	4-034-296-01	HOLDER, DGC	
53	4-392-036-01	CATCHER, PUSH		64	4-036-188-01	SCREW (M), PT	
54	4-039-456-01	WINDOW, ORNAMENTAL		66	4-308-870-00	CLIP, LEAD WIRE	
55	4-039-455-01	BUTTON, POWER		67	1-452-032-00	MAGNET, DISK; 10MM Ø	
56	4-329-112-21	SPRING		68	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
57	Δ 8-733-231-05	PICTURE TUBE (A59JWC61X)		69	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
58	3-704-495-01	SPACER, DY		70	3-701-007-00	BAND, BINDING	
59	Δ 1-451-311-21	DEFLECTION YOKE (Y25FXA)					
60	*A-1638-027-A	C BOARD, COMPLETE					

F1**F2****A1**

SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark **Δ** are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque **Δ** sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS

• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	*A-1624-009-A	F1 BOARD, COMPLETE *****		LF662Δ	1-424-391-11	TRANSFORMER, LINE FILTER	
	1-533-230-11	HOLDER, FUSE		LF663Δ	1-421-862-11	LFT	
		<CONNECTOR>				<TRANSISTOR>	
	CN0003Δ	*1-580-844-11 PIN, CONNECTOR (POWER)		Q661	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
	CN0831Δ	*1-695-292-11 PIN, CONNECTOR (POWER)				<RESISTOR>	
		<FUSE>		R663 Δ	1-244-945-91	CARBON 1M 5% 1/2W	
	F651 Δ	1-576-232-21 FUSE (H.B.C.) 5A/250V		R664 Δ	1-205-949-11	WIREWOUND 1.8 5% 10W F	
		<SWITCH>		R665 Δ	1-218-265-91	METAL GLAZE 8.2M 5% 1W	
	S651 Δ	1-571-433-12 SWITCH, PUSH (AC POWER)		R666	1-249-405-11	CARBON 100 5% 1/4W F	
		*****		R667	1-249-430-11	CARBON 12K 5% 1/4W	
	*A-1624-010-A	F2 BOARD, COMPLETE *****		R668	1-249-434-11	CARBON 27K 5% 1/4W	
		<CAPACITOR>		R669 Δ	1-205-949-11	WIREWOUND 1.8 5% 10W F	
	C661 Δ	1-136-519-11 FILM 0.47MF 20% 300V		R671	1-249-415-11	CARBON 680 5% 1/4W F	
	C662 Δ	1-136-518-11 FILM 0.33MF 20% 300V				<RELAY>	
	C664 Δ	1-164-246-61 CERAMIC 0.0022MF 20% 400V		RY661Δ	1-515-720-31	RELAY	
	C666	1-124-120-11 ELECT 220MF 20% 25V				<THERMISTOR>	
	C667	1-124-916-11 ELECT 22MF 20% 50V		THP661Δ	1-809-827-11	THERMISTOR, POSITIVE	
	C672 Δ	1-161-964-61 CERAMIC 0.0047MF 250V				*****	
	C673 Δ	1-161-964-61 CERAMIC 0.0047MF 250V		*A-1630-110-A	A1 BOARD, COMPLETE (KV-X2562U)		
	C674	1-125-318-00 ELECT (BLOCK) 220MF 20% 400V			*****		
		<CONNECTOR>		*A-1630-111-A	A1 BOARD, COMPLETE (KV-X2563E)		
	CN0005	*1-508-765-00 PIN, CONNECTOR (5MM PITCH) 3P			*****		
	CN0007	*1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P			<FILTER>		
	CN0924	*1-568-878-51 PIN, CONNECTOR 3P		BP1101	1-236-238-11	FILTER, BAND PASS (KV-X2562U)	
	CN0925	*1-695-294-11 PIN, CONNECTOR (PC BOARD) 6P			1-239-047-11	FILTER, BAND PASS (KV-X2563E)	
	CN0929	*1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P		CF1101	1-409-333-00	TRAP, CERAMIC (6.0MHZ) (KV-X2562U)	
	CN0931Δ	*1-691-291-11 PIN, CONNECTOR (PC BOARD) 5P		CF1102	1-404-134-00	TRAP, CERAMIC (5.5MHZ) (KV-X2563E)	
		<DIODE>				<CAPACITOR>	
	D661	8-719-911-19 DIODE 1SS119		C1101	1-126-101-11	ELECT 100MF 20% 16V	
	D662	8-719-400-18 DIODE MA152WK		C1102	1-126-101-11	ELECT 100MF 20% 16V	
	D663	8-719-510-63 DIODE D4SB60L-F		C1103	1-163-038-00	CERAMIC CHIP 0.1MF 10% 25V	
	D664	8-719-921-69 DIODE MTZJ-9.1		C1104	1-163-077-00	CERAMIC CHIP 0.1MF 10% 25V	
		<TRANSFORMER>		C1105	1-164-489-11	CERAMIC CHIP 0.22MF 10% 16V	
	LF661Δ	1-424-391-11 TRANSFORMER, LINE FILTER		C1106	1-163-187-00	CERAMIC CHIP 180PF 5% 50V	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R1128	1-216-089-00	METAL GLAZE 47K 5% 1/10W		C201	1-130-489-00	FILM 0.033MF 5% 50V	
R1129	1-216-089-00	METAL GLAZE 47K 5% 1/10W		C202	1-130-489-00	FILM 0.033MF 5% 50V	
R1130	1-216-246-00	METAL GLAZE 100K 5% 1/8W		C203	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
R1131	1-216-218-00	METAL GLAZE 6.8K 5% 1/8W		C204	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
R1132	1-216-097-00	METAL GLAZE 100K 5% 1/10W		C205	1-124-907-11	ELECT 10MF 20% 50V	
R1133	1-216-089-00	METAL GLAZE 47K 5% 1/10W		C206	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
R1134	1-216-212-00	METAL GLAZE 3.9K 5% 1/8W		C207	1-137-613-11	FILM 0.0018MF 2% 100V	
R1135	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C208	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
R1136	1-216-081-00	METAL GLAZE 22K 5% 1/10W		C209	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
R1137	1-216-095-00	METAL GLAZE 82K 5% 1/10W		C210	1-164-005-11	CERAMIC CHIP 0.47MF 25V	
R1138	1-216-097-00	METAL GLAZE 100K 5% 1/10W		C213	1-163-023-00	CERAMIC CHIP 0.015MF 10% 50V	
R1139	1-216-005-00	METAL GLAZE 15 5% 1/10W		C214	1-163-023-00	CERAMIC CHIP 0.015MF 10% 50V	
R1140	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C215	1-163-809-11	CERAMIC CHIP 0.047MF 10% 25V	
R1141	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W		C216	1-163-809-11	CERAMIC CHIP 0.047MF 10% 25V	
R1142	1-216-033-00	METAL GLAZE 220 5% 1/10W		C217	1-124-925-11	ELECT 2.2MF 20% 50V	
R1143	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C218	1-124-925-11	ELECT 2.2MF 20% 50V	
R1144	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C219	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
R1145	1-216-001-00	METAL GLAZE 10 5% 1/10W		C220	1-163-011-11	CERAMIC CHIP 0.0015MF 10% 50V	
R1146	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C221	1-124-925-11	ELECT 2.2MF 20% 50V	
R1147	1-216-045-00	METAL GLAZE 680 5% 1/10W		C222	1-124-925-11	ELECT 2.2MF 20% 50V	
R1148	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C223	1-136-177-00	FILM 1MF 5% 50V	
R1149	1-216-001-00	METAL GLAZE 10 5% 1/10W		C224	1-136-177-00	FILM 1MF 5% 50V	
R1150	1-216-045-00	METAL GLAZE 680 5% 1/10W		C225	1-164-182-11	CERAMIC CHIP 0.0033MF 10% 50V	
R1151	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C226	1-163-007-11	CERAMIC CHIP 680PF 10% 50V	
R1152	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C227	1-124-907-11	ELECT 10MF 20% 50V	
R1153	1-216-049-00	METAL GLAZE 1K 5% 1/10W		C228	1-124-907-11	ELECT 10MF 20% 50V	
R1154	1-216-041-00	METAL GLAZE 470 5% 1/10W		C229	1-124-478-11	ELECT 100MF 20% 25V	
<CRYSTAL>				C230	1-124-478-11	ELECT 100MF 20% 25V	
X1101	1-579-689-21	VIBRATOR, CRYSTAL		C231	1-164-346-11	CERAMIC CHIP 1MF 16V	
X1102	1-579-283-11	VIBRATOR, CRYSTAL (KV-X2562U)		C232	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
	1-579-282-21	VIBRATOR, CRYSTAL (KV-X2563E)		C233	1-163-009-11	CERAMIC CHIP 0.001MF 10% 50V	
*****				C234	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
*A-1632-121-A	A BOARD, COMPLETE (KV-X2560B,X2561B)			C235	1-130-772-00	FILM 0.22MF 5% 63V	
*A-1632-109-A	A BOARD, COMPLETE			C236	1-124-618-11	ELECT 2200MF 20% 35V	
	(KV-X2561A,X2561D,X2561K)			C237	1-124-618-11	ELECT 2200MF 20% 35V	
*A-1632-120-A	A BOARD, COMPLETE (KV-X2562U)			C238	1-164-161-11	CERAMIC CHIP 0.0022MF 10% 50V	
	*****			C239	1-130-772-00	FILM 0.22MF 5% 63V	
*A-1632-119-A	A BOARD, COMPLETE (KV-X2563E)			C240	1-124-916-11	ELECT 22MF 20% 50V	
	*****			C241	1-124-916-11	ELECT 22MF 20% 50V	
4-200-001-01	HOLDER, IC			C242	1-124-903-11	ELECT 1MF 20% 50V	
4-201-023-01	SPACER, INSULATING			C244	1-164-232-11	CERAMIC CHIP 0.01MF 10% 50V	
4-812-134-00	RIVET NYLON, 3.5			C248	1-163-185-00	CERAMIC CHIP 150PF 5% 50V	
<CAPACITOR>				C249	1-163-129-00	CERAMIC CHIP 330PF 5% 50V	
C071	1-124-126-00	ELECT 47MF 20% 10V		C251	1-126-320-11	ELECT 10MF 20% 16V	
C072	1-124-120-11	ELECT 220MF 20% 16V		C301	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C074	1-163-001-11	CERAMIC CHIP 220PF 10% 50V		C302	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C102	1-126-103-11	ELECT 470MF 20% 16V		C303	1-164-337-11	CERAMIC CHIP 2.2MF 10% 25V	
C103	1-163-031-11	CERAMIC CHIP 0.01MF 50V		C304	1-164-004-11	CERAMIC CHIP 0.1MF 5% 50V	
C104	1-124-910-11	ELECT 47MF 20% 50V		C305	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C105	1-124-916-11	ELECT 22MF 20% 50V		C306	1-163-097-00	CERAMIC CHIP 15PF 5% 50V	
C106	1-124-907-11	ELECT 10MF 20% 50V		C307	1-163-017-00	CERAMIC CHIP 0.0047MF 10% 50V	
	1-124-927-11	ELECT 4.7MF 20% 50V		C308	1-163-809-11	CERAMIC CHIP 0.047MF 10% 25V	
		(KV-X2560B,X2561B)		C309	1-164-004-11	CERAMIC CHIP 0.1MF 10% 25V	
		(KV-X2561A,X2561D,X2561K,X2562U,X2563E)		C310	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C110	1-124-478-11	ELECT 100MF 20% 25V		C311	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
C111	1-102-074-00	CERAMIC 0.001MF 10% 50V		C312	1-124-910-11	ELECT 47MF 20% 50V	
		(KV-X2560B,X2561B)		C313	1-163-077-00	CERAMIC CHIP 0.1MF 25V	
C120	1-163-031-11	CERAMIC CHIP 0.01MF 50V		C314	1-163-038-00	CERAMIC CHIP 0.1MF 25V	
				C315	1-124-910-11	ELECT 47MF 20% 50V	
				C316	1-163-077-00	CERAMIC CHIP 0.1MF 50V	
				C317	1-163-103-00	CERAMIC CHIP 27PF 5% 50V	
				C318	1-163-103-00	CERAMIC CHIP 27PF 5% 50V	
				C319	1-163-038-00	CERAMIC CHIP 0.1MF 25V	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C320	1-124-910-11	ELECT 47MF	20% 50V			<FILTER>	
C321	1-163-038-00	CERAMIC CHIP 0.1MF	25V				
C322	1-124-916-11	ELECT 22MF	20% 50V	CF581	1-577-611-11	OSCILATOR, CERAMIC	
C323	1-163-135-00	CERAMIC CHIP 560PF	5% 50V			<CONNECTOR>	
C324	1-124-910-11	ELECT 47MF	20% 50V	CN0001*1-568-880-51	PIN, CONNECTOR 5P		
C325	1-163-111-00	CERAMIC CHIP 56PF	5% 50V	CN0101 1-695-297-11	CONNECTOR, BOARD TO BOARD 20P		
C326	1-163-109-00	CERAMIC CHIP 47PF	5% 50V			(KV-X2562U, X2563E)	
C341	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	CN0103*1-564-511-11	PLUG, CONNECTOR 8P		
C342	1-163-077-00	CERAMIC CHIP 0.1MF	10% 25V	CN0104*1-568-882-51	PIN, CONNECTOR 7P		
C343	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	CN0105*1-568-880-51	PIN, CONNECTOR 5P		
C344	1-162-638-11	CERAMIC CHIP 1MF	16V	CN0107*1-568-879-51	PIN, CONNECTOR 4P		
C345	1-164-346-11	CERAMIC CHIP 1MF	16V	CN0108*1-568-878-51	PIN, CONNECTOR 3P		
C347	1-162-638-11	CERAMIC CHIP 1MF	16V	CN0109 1-695-299-11	CONNECTOR, BOARD TO BOARD 50P		
C348	1-164-346-11	CERAMIC CHIP 1MF	16V	CN0110*1-568-882-51	PIN, CONNECTOR 7P		
C349	1-164-346-11	CERAMIC CHIP 1MF	16V				
C350	1-124-907-11	ELECT 10MF	20% 50V	CN0113 1-695-298-11	CONNECTOR, BOARD TO BOARD 40P		
C351	1-124-916-11	ELECT 22MF	20% 50V	CN0119*1-568-879-11	PIN, CONNECTOR 4P		
C353	1-164-346-11	CERAMIC CHIP 1MF	16V	CN0137*1-564-511-11	PLUG, CONNECTOR 8P		
C354	1-164-346-11	CERAMIC CHIP 1MF	16V	CN5108*1-564-513-11	PLUG, CONNECTOR 10P		
C355	1-162-638-11	CERAMIC CHIP 1MF	16V			<DIODE>	
C356	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V	D068	8-719-104-34	DIODE 1S2836	
C357	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	D069	8-719-104-34	DIODE 1S2836	
C358	1-164-299-11	CERAMIC CHIP 0.22MF	10% 25V	D071	8-719-109-89	DIODE RD5.6ES-B2	
C359	1-124-907-11	ELECT 10MF	20% 50V	D073	8-719-109-89	DIODE RD5.6ES-B2	
C361	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	D075	8-719-400-18	DIODE MA152WK	
C362	1-130-772-00	FILM 0.22MF	5% 63V	D077	8-719-400-18	DIODE MA152WK	
C363	1-124-907-11	ELECT 10MF	20% 50V	D078	8-719-109-89	DIODE RD5.6ES-B2	
C365	1-124-120-11	ELECT 220MF	20% 16V	D079	8-719-109-89	DIODE RD5.6ES-B2	
C366	1-124-903-11	ELECT 1MF	20% 50V	D101	8-719-982-27	DIODE MTZJ-33C	
C401	1-164-005-11	CERAMIC CHIP 0.47MF	16V	D206	8-719-400-18	DIODE MA152WK	
C402	1-124-917-11	ELECT 33MF	20% 50V	D207	8-719-921-89	DIODE MTZJ-13C	
C403	1-162-637-11	CERAMIC CHIP 0.47MF	16V	D208	8-719-911-19	DIODE 1SS119	
C411	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D209	8-719-911-19	DIODE 1SS119	
C412	1-164-005-11	CERAMIC CHIP 0.47MF	25V	D210	8-719-911-19	DIODE 1SS119	
C421	1-124-910-11	ELECT 47MF	20% 50V	D211	8-719-911-19	DIODE 1SS119	
C422	1-124-910-11	ELECT 47MF	20% 50V	D212	8-719-911-19	DIODE 1SS119	
C423	1-101-004-00	CERAMIC 0.01MF	50V	D213	8-719-400-18	DIODE MA152WK	
C424	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D301	8-719-400-18	DIODE MA152WK	
C425	1-163-129-00	CERAMIC CHIP 330PF	5% 50V	D302	8-719-104-34	DIODE 1S2836	
C426	1-124-910-11	ELECT 47MF	20% 50V	D304	8-719-109-89	DIODE RD5.6ES-B2	
C427	1-164-346-11	CERAMIC CHIP 1MF	16V	D305	8-719-400-18	DIODE MA152WK	
C428	1-164-346-11	CERAMIC CHIP 1MF	16V	D306	8-719-400-18	DIODE MA152WK	
C429	1-124-119-00	ELECT 330MF	20% 16V	D307	8-719-400-18	DIODE MA152WK	
C574	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	D308	8-719-800-76	DIODE 1SS226	
C581	1-163-031-11	CERAMIC CHIP 0.01MF	50V	D311	8-719-800-76	DIODE 1SS226	
C582	1-124-916-11	ELECT 22MF	20% 50V	D381	8-719-110-03	DIODE RD7.5ES-B2	
C583	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	D401	8-719-921-69	DIODE MTZJ-9.1	
C586	1-163-063-00	CERAMIC CHIP 0.022MF	10% 50V	D403	8-719-921-69	DIODE MTZJ-9.1	
C587	1-124-903-11	ELECT 1MF	20% 50V	D405	8-719-921-69	DIODE MTZJ-9.1	
C588	1-164-346-11	CERAMIC CHIP 1MF	16V	D406	8-719-921-69	DIODE MTZJ-9.1	
C589	1-126-103-11	ELECT 470MF	20% 16V	D407	8-719-921-69	DIODE MTZJ-9.1	
C590	1-124-916-11	ELECT 22MF	20% 50V	D571	8-719-800-76	DIODE 1SS226	
C591	1-124-925-11	ELECT 2.2MF	20% 50V	D682	8-719-109-89	DIODE RD5.6ES-B2	
C592	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V			<IC>	
C593	1-164-182-11	CERAMIC CHIP 0.0033MF	10% 50V	IC072	8-759-073-14	IC X24C16P	
C595	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	IC201	8-759-073-30	IC TDA6612	
C599	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V			(KV-X2560B, X2561A, X2561B, X2561D, X2561E, 1K, X2563E)	
C681	1-124-478-11	ELECT 100MF	20% 25V			8-759-073-31	IC TDA6622 (KV-X2562U)
C682	1-126-101-11	ELECT 100MF	20% 16V	IC202	8-759-502-21	IC TDA2822M	
C683	1-124-478-11	ELECT 100MF	20% 25V				
C684	1-124-478-11	ELECT 100MF	20% 25V				
C685	1-124-478-11	ELECT 100MF	20% 25V				

A

Les composants identifiés par
une trame et une marque Δ
sont critiques pour la sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifique.

The components identified by
shading and mark Δ are critical
for safety.
Replace only with part number
specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC251	8-759-072-99	IC TDA2052		Q403	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
IC261	8-759-072-99	IC TDA2052		Q581	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
IC301	8-759-073-15	IC TDA9145/N1		Q582	8-729-216-22	TRANSISTOR 2SA1162-G	
IC302	8-759-084-91	IC TDA4661/V2		Q610	8-729-140-97	TRANSISTOR 2SB734-34	
IC304	8-752-056-54	IC CXA1587S		Q611	8-729-900-53	TRANSISTOR DTC114EK	
IC401	8-752-062-86	IC CXA1545AS		Q683	8-729-140-96	TRANSISTOR 2SD774-34	
IC402	8-759-073-00	IC TEA2114		<RESISTOR>			
IC681	8-759-072-98	IC TDA8138A		JR101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC683	8-759-982-10	IC RC7809FA		JR102	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IC684	8-759-982-10	IC RC7809FA		JR104	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<IF BLOCK>				JR105	1-216-295-00	METAL GLAZE 0 5% 1/10W	
IFB101	1-466-735-11	IF BLOCK (IFH-389F) (KV-X2560B, X2561B)		JR107	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	1-466-733-11	IF BLOCK (IFH-389)		JR110	1-216-295-00	METAL GLAZE 0 5% 1/10W	
		(KV-X2561A, X2561D, X2561K, X2563E)		JR111	1-216-295-00	METAL GLAZE 0 5% 1/10W	
	1-466-734-11	IF BLOCK (IFH-395) (KV-X2562U)		JR112	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<COIL>				JR113	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L101	1-412-546-41	INDUCTOR 560UH		JR114	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L102	1-408-413-00	INDUCTOR 22UH		JR115	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L201	1-407-500-00	INDUCTOR 4.7MMH		JR116	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L306	1-408-405-00	INDUCTOR 4.7UH		JR117	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L307	1-408-405-00	INDUCTOR 4.7UH		JR118	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L308	1-408-417-00	INDUCTOR 47UH		JR119	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L309	1-408-409-00	INDUCTOR 10UH		JR120	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L310	1-410-396-41	FERRITE BEAD INDUCTOR		JR121	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L572	1-410-119-11	INDUCTOR 1MMH		JR122	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L610	1-412-539-41	INDUCTOR 150UH		JR123	1-216-295-00	METAL GLAZE 0 5% 1/10W	
L611	1-412-539-41	INDUCTOR 150UH		JR125	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<IC LINK>				JR127	1-216-295-00	METAL GLAZE 0 5% 1/10W	
PS681A	1-532-605-91	LINK, IC 0.4A		JR129	1-216-295-00	METAL GLAZE 0 5% 1/10W	
<TRANSISTOR>				JR131	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q071	8-729-901-05	TRANSISTOR DTA124EK		JR132	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q101	8-729-216-22	TRANSISTOR 2SA1162-G		JR133	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q102	8-729-901-00	TRANSISTOR DTC124EK		JR134	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q103	8-729-900-53	TRANSISTOR DTC114EK		JR136	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q201	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR137	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q202	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR138	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q203	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR140	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q204	8-729-216-22	TRANSISTOR 2SA1162-G		JR141	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q205	8-729-216-22	TRANSISTOR 2SA1162-G		JR142	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q206	8-729-216-22	TRANSISTOR 2SA1162-G		JR143	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q207	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR144	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q209	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR150	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q210	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR152	1-216-295-00	METAL GLAZE 0 5% 1/10W	
Q301	8-729-901-00	TRANSISTOR DTC124EK		JR201A	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G		JR202	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		JR203	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q304	8-729-900-53	TRANSISTOR DTC114EK		JR204	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q305	8-729-901-01	TRANSISTOR DTC144EK		JR205	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		JR206	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		JR207	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q309	8-729-931-02	TRANSISTOR 2SC2413KQ		JR208	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q311	8-729-901-06	TRANSISTOR DTA144EK		JR209	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q312	8-729-900-53	TRANSISTOR DTC114EK		JR210	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q313	8-729-216-22	TRANSISTOR 2SA1162-G		JR211	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q401	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR212	1-216-296-00	METAL GLAZE 0 5% 1/8W	
Q402	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		JR213	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR214	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR215	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR216	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR217	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR218	1-216-296-00	METAL GLAZE 0 5% 1/8W	
				JR219	1-216-296-00	METAL GLAZE 0 5% 1/8W	

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
JR220	1-216-296-00	METAL GLAZE	0 5% 1/8W	R216	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR221	1-216-296-00	METAL GLAZE	0 5% 1/8W	R217	1-216-045-00	METAL GLAZE	680 5% 1/10W
JR222	1-216-296-00	METAL GLAZE	0 5% 1/8W	R218	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR223	1-216-296-00	METAL GLAZE	0 5% 1/8W	R221	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
JR225	1-216-296-00	METAL GLAZE	0 5% 1/8W	R222	1-216-049-00	METAL GLAZE	1K 5% 1/10W
JR226	1-216-296-00	METAL GLAZE	0 5% 1/8W	R223	1-216-045-00	METAL GLAZE	680 5% 1/10W
JR227	1-216-296-00	METAL GLAZE	0 5% 1/8W	R224	1-249-433-11	CARBON	22K 5% 1/4W
JR228	1-216-296-00	METAL GLAZE	0 5% 1/8W	R225	1-212-849-00	FUSIBLE	4.7 5% 1/4W F
JR229	1-216-296-00	METAL GLAZE	0 5% 1/8W	R226	1-249-412-11	CARBON	390 5% 1/4W
JR230	1-216-296-00	METAL GLAZE	0 5% 1/8W	R227	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR231	1-216-296-00	METAL GLAZE	0 5% 1/8W	R228	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR232	1-216-296-00	METAL GLAZE	0 5% 1/8W	R229	1-216-039-00	METAL GLAZE	390 5% 1/10W
JR233	1-216-296-00	METAL GLAZE	0 5% 1/8W	R230	1-216-246-00	METAL GLAZE	100K 5% 1/8W
JR234	1-216-296-00	METAL GLAZE	0 5% 1/8W	R231	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR235	1-216-296-00	METAL GLAZE	0 5% 1/8W	R232	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR236	1-216-296-00	METAL GLAZE	0 5% 1/8W	R233	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
JR237	1-216-296-00	METAL GLAZE	0 5% 1/8W	R234	1-216-077-00	METAL GLAZE	15K 5% 1/10W
JR238	1-216-296-00	METAL GLAZE	0 5% 1/8W	R235	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR239	1-216-296-00	METAL GLAZE	0 5% 1/8W	R236	1-216-081-00	METAL GLAZE	22K 5% 1/10W
JR240	1-216-296-00	METAL GLAZE	0 5% 1/8W	R237	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR241	1-216-296-00	METAL GLAZE	0 5% 1/8W	R238	1-216-025-00	METAL GLAZE	100 5% 1/10W
JR242	1-216-296-00	METAL GLAZE	0 5% 1/8W	R239	1-216-295-00	METAL GLAZE	0 5% 1/10W
JR243	1-216-296-00	METAL GLAZE	0 5% 1/8W	R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR245	1-216-296-00	METAL GLAZE	0 5% 1/8W	R242	1-216-214-00	METAL GLAZE	4.7K 5% 1/8W
JR247	1-216-296-00	METAL GLAZE	0 5% 1/8W	R244	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
JR248	1-216-296-00	METAL GLAZE	0 5% 1/8W	R245	1-216-089-00	METAL GLAZE	47K 5% 1/10W
JR250	1-216-296-00	METAL GLAZE	0 5% 1/8W	R246	1-216-097-00	METAL GLAZE	100K 5% 1/10W
JR251	1-216-296-00	METAL GLAZE	0 5% 1/8W	R247	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR252	1-216-296-00	METAL GLAZE	0 5% 1/8W	R248	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR253	1-216-296-00	METAL GLAZE	0 5% 1/8W	R249	1-216-045-00	METAL GLAZE	680 5% 1/10W
JR254	1-216-296-00	METAL GLAZE	0 5% 1/8W	R250	1-216-095-00	METAL GLAZE	82K 5% 1/10W
JR255	1-216-295-00	METAL GLAZE	0 5% 1/10W	R251	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
JR256	1-216-296-00	METAL GLAZE	0 5% 1/8W	R252	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR257	1-216-295-00	METAL GLAZE	0 5% 1/10W	R253	1-216-073-00	METAL GLAZE	10K 5% 1/10W
JR258	1-216-296-00	METAL GLAZE	0 5% 1/8W	R254	1-216-252-00	METAL GLAZE	180K 5% 1/8W
JR270	1-216-295-00	METAL GLAZE	0 5% 1/10W	R255	1-216-252-00	METAL GLAZE	180K 5% 1/8W
JR272	1-216-295-00	METAL GLAZE	0 5% 1/10W	R256	1-249-409-11	CARBON	220 5% 1/4W
R071	1-216-041-00	METAL GLAZE	470 5% 1/10W	R257	1-249-409-11	CARBON	220 5% 1/4W
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W	R258	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R073	1-216-033-00	METAL GLAZE	220 5% 1/10W	R259	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R074	1-216-198-00	METAL GLAZE	1K 5% 1/8W	R260	1-216-212-00	METAL GLAZE	3.9K 5% 1/8W
R076	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R301	1-216-041-00	METAL GLAZE	470 5% 1/10W
R077	1-216-025-00	METAL GLAZE	100 5% 1/10W	R302	1-216-041-00	METAL GLAZE	470 5% 1/10W
R101	1-216-025-00	METAL GLAZE	100 5% 1/10W	R303	1-216-174-00	METAL GLAZE	100 5% 1/8W
R102	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R304	1-216-174-00	METAL GLAZE	100 5% 1/8W
R103	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R305	1-216-035-00	METAL GLAZE	270 5% 1/10W
R105	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R306	1-216-035-00	METAL GLAZE	270 5% 1/10W
R108	1-216-230-00	METAL GLAZE	22K 5% 1/8W	R307	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R115	1-216-210-00	METAL GLAZE	3.3K 5% 1/8W	R308	1-216-121-00	METAL GLAZE	1M 5% 1/10W
R201	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R309	1-216-001-00	METAL GLAZE	10 5% 1/10W
R202	1-216-653-11	METAL CHIP	1.2K 0.50% 1/10W	R310	1-216-001-00	METAL GLAZE	10 5% 1/10W
R203	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R311	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R204	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R312	1-249-413-11	CARBON	470 5% 1/4W
R205	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R313	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R206	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R314	1-249-409-11	CARBON	220 5% 1/4W
R207	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R315	1-249-409-11	CARBON	220 5% 1/4W
R208	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R316	1-216-085-00	METAL GLAZE	33K 5% 1/10W
R209	1-249-377-11	CARBON	0.47 5% 1/4W F	R317	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R210	1-247-734-11	CARBON	39 5% 1/2W	R318	1-216-041-00	METAL GLAZE	470 5% 1/10W
R211	1-247-734-11	CARBON	39 5% 1/2W	R319	1-249-413-11	CARBON	470 5% 1/4W
R212	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R320	1-216-174-00	METAL GLAZE	100 5% 1/8W
R213	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R321	1-216-039-00	METAL GLAZE	390 5% 1/10W
R214	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R322	1-216-041-00	METAL GLAZE	470 5% 1/10W
R215	1-216-073-00	METAL GLAZE	10K 5% 1/10W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R324	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R581	1-216-033-00	METAL GLAZE	220 5% 1/10W
R325	1-216-041-00	METAL GLAZE	470 5% 1/10W	R582	1-216-037-00	METAL GLAZE	330 5% 1/10W
R326	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R583	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R328	1-216-025-00	METAL GLAZE	100 5% 1/10W	R584	1-216-039-00	METAL GLAZE	390 5% 1/10W
R329	1-216-023-00	METAL GLAZE	82 5% 1/10W	R586	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R330	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R587	1-216-045-00	METAL GLAZE	680 5% 1/10W
R331	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R588	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R333	1-216-182-00	METAL GLAZE	220 5% 1/8W	R589	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R334	1-216-182-00	METAL GLAZE	220 5% 1/8W	R590	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R336	1-216-178-00	METAL GLAZE	150 5% 1/8W	R591	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R337	1-216-041-00	METAL GLAZE	470 5% 1/10W	R592	1-216-232-00	METAL GLAZE	27K 5% 1/8W
R338	1-216-037-00	METAL GLAZE	330 5% 1/10W	R593	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R339	1-216-025-00	METAL GLAZE	100 5% 1/10W	R594	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R340	1-216-025-00	METAL GLAZE	100 5% 1/10W	R595	1-216-643-11	METAL CHIP	470 0.50% 1/10W
R341	1-216-025-00	METAL GLAZE	100 5% 1/10W	R596	1-216-670-11	METAL CHIP	6.2K 0.50% 1/10W
R342	1-216-033-00	METAL GLAZE	220 5% 1/10W	R597	1-216-230-00	METAL GLAZE	22K 5% 1/8W
R343	1-216-022-00	METAL GLAZE	75 5% 1/10W	R600	1-216-190-00	METAL GLAZE	470 5% 1/8W
R344	1-216-022-00	METAL GLAZE	75 5% 1/10W	R616	1-216-035-00	METAL GLAZE	270 5% 1/10W
R345	1-216-171-00	METAL GLAZE	75 5% 1/8W	R628	1-249-413-11	CARBON	470 5% 1/4W
R346	1-216-022-00	METAL GLAZE	75 5% 1/10W	R681	1-216-397-11	METAL OXIDE	4.7 5% 3W F
R347	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R684	1-216-047-00	METAL GLAZE	820 5% 1/10W
R351	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R685	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R352	1-216-033-00	METAL GLAZE	220 5% 1/10W	<TUNER>			
R354	1-216-033-00	METAL GLAZE	220 5% 1/10W	TU101	1-693-185-11	TUNER (UV916H)	
R355	1-216-033-00	METAL GLAZE	220 5% 1/10W			(KV-X2560B, X2561A, X2561B, X2561D, X2561K, X2563E)	
R356	1-216-033-00	METAL GLAZE	220 5% 1/10W		1-693-184-11	TUNER (U944C) (KV-X2562U)	
R357	1-216-041-00	METAL GLAZE	470 5% 1/10W	<CRYSTAL>			
R358	1-216-031-00	METAL GLAZE	180 5% 1/10W	X301	1-567-504-11	OSCILLATOR, CRYSTAL	
R359	1-216-033-00	METAL GLAZE	220 5% 1/10W	X302	1-567-505-11	OSCILLATOR, CRYSTAL	
R360	1-216-033-00	METAL GLAZE	220 5% 1/10W	*****			
R361	1-216-033-00	METAL GLAZE	220 5% 1/10W		1-466-733-11	IF BLOCK (IFH-389)	
R362	1-216-077-00	METAL GLAZE	15K 5% 1/10W			*****	
R363	1-216-073-00	METAL GLAZE	10K 5% 1/10W			(KV-X2561A, X2561D, X2561K, X2563E)	
R366	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	<CAPACITOR>			
R376	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C101	1-163-121-00	CERAMIC CHIP	150PF 5% 50V
R377	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C102	1-164-222-11	CERAMIC CHIP	0.22MF 25V
R378	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C103	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R379	1-216-206-00	METAL GLAZE	2.2K 5% 1/8W	C104	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R380	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C105	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R381	1-216-164-00	METAL GLAZE	39 5% 1/8W	C106	1-124-477-11	ELECT	47MF 20% 16V
R382	1-216-164-00	METAL GLAZE	39 5% 1/8W	C107	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R383	1-216-164-00	METAL GLAZE	39 5% 1/8W	C108	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R401	1-216-171-00	METAL GLAZE	75 5% 1/8W	C109	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R402	1-216-158-00	METAL GLAZE	22 5% 1/8W	C112	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R403	1-216-025-00	METAL GLAZE	100 5% 1/10W	C113	1-163-101-00	CERAMIC CHIP	22PF 5% 50V
R404	1-216-158-00	METAL GLAZE	22 5% 1/8W	C114	1-124-477-11	ELECT	47MF 20% 16V
R405	1-216-025-00	METAL GLAZE	100 5% 1/10W	C115	1-164-232-11	CERAMIC CHIP	0.01MF 10% 50V
R406	1-216-158-00	METAL GLAZE	22 5% 1/8W	C116	1-164-346-11	CERAMIC CHIP	1MF 16V
R407	1-216-025-00	METAL GLAZE	100 5% 1/10W	C118	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R408	1-216-093-00	METAL GLAZE	68K 5% 1/10W	C119	1-163-369-11	CERAMIC CHIP	47PF 5% 50V
R410	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C121	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
R411	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	C122	1-163-239-11	CERAMIC CHIP	33PF 5% 50V
R412	1-216-022-00	METAL GLAZE	75 5% 1/10W	C123	1-163-235-11	CERAMIC CHIP	22PF 5% 50V
R413	1-216-022-00	METAL GLAZE	75 5% 1/10W	C124	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R414	1-216-022-00	METAL GLAZE	75 5% 1/10W	C130	1-216-295-00	METAL GLAZE	0 5% 1/10W
R416	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C131	1-163-093-00	CERAMIC CHIP	10PF 5% 50V
R417	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R419	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
R420	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
R424	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R425	1-216-025-00	METAL GLAZE	100 5% 1/10W				
R428	1-249-393-11	CARBON	10 5% 1/4W F				
R574	1-216-041-00	METAL GLAZE	470 5% 1/10W				
R575	1-216-037-00	METAL GLAZE	330 5% 1/10W				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C133	1-124-477-11	ELECT 47MF	20% 16V	Q170	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C152	1-164-337-11	CERAMIC CHIP 2.2MF	16V	Q171	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C153	1-164-337-11	CERAMIC CHIP 2.2MF	16V	Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C154	1-164-337-11	CERAMIC CHIP 2.2MF	16V	Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C155	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C156	1-124-477-11	ELECT 47MF	20% 16V			<RESISTOR>	
C161	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	JR2	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C162	1-164-222-11	CERAMIC CHIP 0.22MF	25V	JR3	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C163	1-164-346-11	CERAMIC CHIP 1MF	16V	JR4	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR7	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C165	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	JR8	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C166	1-124-477-11	ELECT 47MF	20% 16V	JR9	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V	JR11	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C168	1-164-346-11	CERAMIC CHIP 1MF	16V	JR14	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C170	1-124-477-11	ELECT 47MF	20% 16V	JR16	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C171	1-124-477-11	ELECT 47MF	20% 16V	JR18	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C172	1-124-477-11	ELECT 47MF	20% 16V	JR19	1-216-296-00	METAL GLAZE 0 5% 1/8W	
C173	1-124-477-11	ELECT 47MF	20% 16V	JR20	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		<FILTER>		JR21	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CF2	1-527-839-00	FILTER, CERAMIC		JR23	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CF3	1-527-840-00	FILTER, CERAMIC		JR24	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CF4	1-567-570-11	FILTER, CERAMIC		JR25	1-216-296-00	METAL GLAZE 0 5% 1/8W	
SWF1	1-579-658-11	FILTER, SAWTOOTH WAVE		JR29	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		<CONNECTOR>		JR30	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR33	1-216-295-00	METAL GLAZE 0 5% 1/10W	
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR38	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		<TRIMMER>		JR39	1-216-296-00	METAL GLAZE 0 5% 1/8W	
CT1	1-404-801-11	TRAP, CERAMIC		JR40	1-216-296-00	METAL GLAZE 0 5% 1/8W	
		<DIODE>		R101	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
D161	8-719-400-18	DIODE MA152WK		R102	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
		<IC>		R103	1-216-057-00	METAL GLAZE 2.2K 5% 1/10W	
IC1	8-759-070-76	IC M52308SP		R104	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
IC2	8-759-070-71	IC TDA9820		R106	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
IC3	8-759-514-54	IC BA7046		R107	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
		<COIL>		R108	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W	
L101	1-408-421-00	INDUCTOR 100UH		R110	1-216-041-00	METAL GLAZE 470 5% 1/10W	
L102	1-408-419-00	INDUCTOR 68UH		R113	1-216-031-00	METAL GLAZE 180 5% 1/10W	
L103	1-408-419-00	INDUCTOR 68UH		R114	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
L104	1-408-408-00	INDUCTOR 8.2UH		R115	1-216-027-00	METAL GLAZE 120 5% 1/10W	
L121	1-408-413-00	INDUCTOR 22UH		R116	1-216-101-00	METAL GLAZE 150K 5% 1/10W	
L122	1-408-420-00	INDUCTOR 82UH		R117	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
L142	1-410-790-41	INDUCTOR 0.56UH		R118	1-216-117-00	METAL GLAZE 680K 5% 1/10W	
L151	1-408-419-00	INDUCTOR 68UH		R119	1-216-240-00	METAL GLAZE 56K 5% 1/8W	
L161	1-408-419-00	INDUCTOR 68UH		R120	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
		<TRANSISTOR>		R121	1-216-053-00	METAL GLAZE 1.5K 5% 1/10W	
Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R122	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q102	8-729-216-22	TRANSISTOR 2SA1162-G		R123	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R124	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q122	8-729-216-22	TRANSISTOR 2SA1162-G		R125	1-216-041-00	METAL GLAZE 470 5% 1/10W	
Q161	8-729-216-22	TRANSISTOR 2SA1162-G		R127	1-216-047-00	METAL GLAZE 820 5% 1/10W	
				R130	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R131	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R132	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
				R133	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
				R134	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R135	1-216-198-00	METAL GLAZE 1K 5% 1/8W	
				R150	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R151	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R152	1-216-043-00	METAL GLAZE 560 5% 1/10W	
				R153	1-216-025-00	METAL GLAZE 100 5% 1/10W	
				R154	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
				R155	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
				R156	1-216-083-00	METAL GLAZE 27K 5% 1/10W	

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R157	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C26	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R159	1-216-107-00	METAL GLAZE	270K 5% 1/10W	C27	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R160	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C28	1-124-477-11	ELECT 47MF	20% 16V
R161	1-218-755-11	METAL CHIP	130K 0.50% 1/10W	C33	1-124-907-11	ELECT 10MF	20% 50V
R162	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C34	1-124-907-11	ELECT 10MF	20% 50V
R163	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C35	1-124-925-11	ELECT 2.2MF	20% 50V
R164	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C36	1-124-477-11	ELECT 47MF	20% 16V
R165	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C37	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R166	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C38	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R167	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C40	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R168	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C71	1-124-477-11	ELECT 47MF	20% 16V
R169	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C72	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R170	1-216-083-00	METAL GLAZE	27K 5% 1/10W	C80	1-124-477-11	ELECT 47MF	20% 16V
R171	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C83	1-124-477-11	ELECT 47MF	20% 16V
R172	1-216-095-00	METAL GLAZE	82K 5% 1/10W	C84	1-124-477-11	ELECT 47MF	20% 16V
R173	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C85	1-124-477-11	ELECT 47MF	20% 16V
R174	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C86	1-124-477-11	ELECT 47MF	20% 16V
R175	1-216-083-00	METAL GLAZE	27K 5% 1/10W	C87	1-124-477-11	ELECT 47MF	20% 16V
R176	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C91	1-163-229-11	CERAMIC CHIP 12PF	5% 50V
R177	1-216-095-00	METAL GLAZE	82K 5% 1/10W	C95	1-164-337-11	CERAMIC CHIP 2.2MF	10% 16V
R178	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C101	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R179	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C102	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R180	1-216-037-00	METAL GLAZE	330 5% 1/10W	C104	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R181	1-216-037-00	METAL GLAZE	330 5% 1/10W	C105	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
<VARIABLE RESISTOR>				C106	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K		C121	1-126-176-11	ELECT 220MF	20% 10V
<TRANSFORMER>				C122	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
T4	1-416-017-21	COIL		C131	1-126-099-11	ELECT 2.2MF	20% 35V
T5	1-416-018-21	COIL		<FILTER>			
*****				CF1	1-527-839-00	FILTER, CERAMIC	
1-466-735-11	IF BLOCK (IFH-389F) (KV-X2560B,X2561B)			CF2	1-567-569-11	FILTER, CERAMIC	
*****				CF3	1-527-840-00	FILTER, CERAMIC	
<CAPACITOR>				CF4	1-567-570-11	FILTER, CERAMIC	
C1	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	SWF1	1-579-662-11	FILTER, SURFACE WAVE	
C2	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	SWF3	1-404-711-11	SAWF	
C3	1-124-903-11	ELECT 1MF	20% 50V	SWF4	1-579-660-11	FILTER, SAWTOOTH WAVE	
C4	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<CONNECTOR>			
C5	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
C6	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P	
C7	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<TRIMMER>			
C8	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CT1	1-404-801-11	TRAP, CERAMIC	
C9	1-124-916-11	ELECT 22MF	20% 25V	CT2	1-409-429-11	TRAP, CERAMIC	
C10	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	CV1	1-141-245-00	CAP, TRIMMER	
C11	1-124-477-11	ELECT 47MF	20% 16V	CV2	1-141-245-00	CAP, TRIMMER	
C13	1-163-059-00	CERAMIC CHIP 0.01MF	10% 50V	CV3	1-141-304-21	TRIMMER, CERAMIC	
C14	1-124-477-11	ELECT 47MF	20% 16V	<DIODE>			
C15	1-124-903-11	ELECT 1MF	20% 50V	D7	8-719-421-57	DIODE MA73-TX	
C16	1-163-061-00	CERAMIC CHIP 0.015MF	10% 50V	D8	8-719-421-57	DIODE MA73-TX	
C17	1-162-638-11	CERAMIC CHIP 1MF	16V	D9	8-719-421-57	DIODE MA73-TX	
C18	1-162-638-11	CERAMIC CHIP 1MF	16V	<IC>			
C19	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	IC1	8-759-070-75	IC M52312SP	
C20	1-124-902-00	ELECT 0.47MF	20% 50V	IC2	8-759-070-71	IC TDA9820	
C21	1-124-903-11	ELECT 1MF	20% 50V	IC3	8-759-979-62	IC PCF8574	
C22	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				
C23	1-124-902-00	ELECT 0.47MF	20% 50V				
C24	1-164-506-11	CERAMIC CHIP 4.7MF	16V				
C25	1-124-477-11	ELECT 47MF	20% 16V				

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<COIL>				R43	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L1	1-408-419-00	INDUCTOR 68UH		R44	1-216-027-00	METAL GLAZE 120 5%	1/10W
L2	1-408-419-00	INDUCTOR 68UH		R45	1-216-041-00	METAL GLAZE 470 5%	1/10W
L3	1-408-407-00	INDUCTOR 6.8UH		R46	1-216-031-00	METAL GLAZE 180 5%	1/10W
L4	1-408-419-00	INDUCTOR 68UH		R47	1-216-075-00	METAL GLAZE 12K 5%	1/10W
L5	1-408-419-00	INDUCTOR 68UH		R48	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L7	1-408-406-00	INDUCTOR 5.6UH		R49	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L9	1-408-419-00	INDUCTOR 68UH		R53	1-216-082-00	METAL GLAZE 24K 5%	1/10W
L71	1-408-419-00	INDUCTOR 68UH		R54	1-216-043-00	METAL GLAZE 560 5%	1/10W
L101	1-408-399-00	INDUCTOR 1.5UH		R55	1-216-043-00	METAL GLAZE 560 5%	1/10W
L121	1-408-407-00	INDUCTOR 6.8UH		R56	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
<TRANSISTOR>				R57	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
Q1	8-729-907-06	TRANSISTOR BF199-AMMO		R58	1-216-041-00	METAL GLAZE 470 5%	1/10W
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R59	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q5	8-729-115-10	TRANSISTOR 2SK105A-10		R60	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q6	8-729-900-52	TRANSISTOR DTC114YK		R61	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q7	8-729-216-22	TRANSISTOR 2SA1162-G		R63	1-216-043-00	METAL GLAZE 560 5%	1/10W
Q8	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R71	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q10	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R72	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q11	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R73	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q12	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R74	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q13	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R75	1-216-079-00	METAL GLAZE 18K 5%	1/10W
Q14	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R76	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q15	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R77	1-216-174-00	METAL GLAZE 100 5%	1/8W
Q16	8-729-216-22	TRANSISTOR 2SA1162-G		R81	1-216-095-00	METAL GLAZE 82K 5%	1/10W
Q101	8-729-104-80	TRANSISTOR 2SC3355		R82	1-216-121-00	METAL GLAZE 1M 5%	1/10W
Q121	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R83	1-216-025-00	METAL GLAZE 100 5%	1/10W
<RESISTOR>				R84	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR2	1-216-295-00	METAL GLAZE 0 5%	1/10W	R85	1-216-085-00	METAL GLAZE 33K 5%	1/10W
JR3	1-216-296-00	METAL GLAZE 0 5%	1/8W	R86	1-216-689-11	METAL GLAZE 39K 5%	1/10W
JR5	1-216-296-00	METAL GLAZE 0 5%	1/8W	R87	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R1	1-216-025-00	METAL GLAZE 100 5%	1/10W	R88	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R2	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R89	1-216-095-00	METAL GLAZE 82K 5%	1/10W
R3	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R90	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R4	1-216-041-00	METAL GLAZE 470 5%	1/10W	R91	1-216-295-00	METAL GLAZE 0 5%	1/10W
R5	1-216-021-00	METAL GLAZE 68 5%	1/10W	R92	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R6	1-216-055-00	METAL GLAZE 1.8K 5%	1/10W	R93	1-216-075-00	METAL GLAZE 12K 5%	1/10W
R8	1-216-051-00	METAL GLAZE 1.2K 5%	1/10W	R94	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R9	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W	R95	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R10	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W	R96	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W
R11	1-216-059-00	METAL GLAZE 2.7K 5%	1/10W	R97	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R24	1-216-280-00	METAL GLAZE 2.7M 5%	1/8W	R98	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R25	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R99	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R26	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R100	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R27	1-216-266-00	METAL GLAZE 680K 5%	1/8W	R102	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R28	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R103	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R29	1-216-035-00	METAL GLAZE 270 5%	1/10W	R104	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R30	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R105	1-216-033-00	METAL GLAZE 220 5%	1/10W
R31	1-216-017-00	METAL GLAZE 47 5%	1/10W	R121	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R32	1-216-043-00	METAL GLAZE 560 5%	1/10W	R122	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R33	1-216-037-00	METAL GLAZE 330 5%	1/10W	R123	1-216-041-00	METAL GLAZE 470 5%	1/10W
R34	1-216-252-00	METAL GLAZE 180K 5%	1/8W	R124	1-216-041-00	METAL GLAZE 470 5%	1/10W
R35	1-216-035-00	METAL GLAZE 270 5%	1/10W	R125	1-216-041-00	METAL GLAZE 470 5%	1/10W
R36	1-216-029-00	METAL GLAZE 150 5%	1/10W	R301	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R37	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R302	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R38	1-216-099-00	METAL GLAZE 120K 5%	1/10W	R303	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R39	1-216-089-00	METAL GLAZE 47K 5%	1/10W	R304	1-216-037-00	METAL GLAZE 330 5%	1/10W
R40	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R305	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R42	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W	R306	1-216-025-00	METAL GLAZE 100 5%	1/10W
				R307	1-216-037-00	METAL GLAZE 330 5%	1/10W
				R308	1-216-037-00	METAL GLAZE 330 5%	1/10W

IF

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1)

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>				<TRIMMER>			
RV2	1-241-120-11	RES, ADJ, CARBON 2.2K		CT1	1-409-333-00	TRAP, CERAMIC (6.0MHZ)	
<TRANSFORMER>				<DIODE>			
T1	1-404-806-21	COIL		D161	8-719-400-18	DIODE MA152WK	
T3	1-416-012-11	COIL		<IC>			
T4	1-416-012-11	COIL		IC1	8-759-070-76	IC M52308SP	
T5	1-402-720-11	COIL		IC3	8-759-514-54	IC BA7046	
<CRYSTAL>				<COIL>			
X1	1-579-648-21	VIBRATOR, CERAMIC		L101	1-408-414-00	INDUCTOR	27UH
*****				L102	1-408-419-00	INDUCTOR	68UH
	1-466-734-11	IF BLOCK (IFH-395) (KV-X2562U)		L103	1-408-419-00	INDUCTOR	68UH
*****				L104	1-408-406-00	INDUCTOR	5.6UH
<CAPACITOR>				L105	1-408-410-00	INDUCTOR	12UH
C101	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	L142	1-410-790-41	INDUCTOR	0.56UH
C102	1-164-222-11	CERAMIC CHIP 0.22MF	25V	L161	1-408-419-00	INDUCTOR	68UH
C103	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	<TRANSISTOR>			
C104	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q101	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C105	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q102	8-729-216-22	TRANSISTOR 2SA1162-G	
C106	1-124-477-11	ELECT 47MF	20% 16V	Q122	8-729-216-22	TRANSISTOR 2SA1162-G	
C107	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q161	8-729-216-22	TRANSISTOR 2SA1162-G	
C108	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	Q172	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C109	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	Q173	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C112	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	<RESISTOR>			
C113	1-163-101-00	CERAMIC CHIP 22PF	5% 50V	JR1	1-216-296-00	METAL GLAZE	0 5% 1/8W
C114	1-124-477-11	ELECT 47MF	20% 16V	JR2	1-216-295-00	METAL GLAZE	0 5% 1/10W
C115	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	JR3	1-216-296-00	METAL GLAZE	0 5% 1/8W
C116	1-164-346-11	CERAMIC CHIP 1MF	16V	JR4	1-216-295-00	METAL GLAZE	0 5% 1/10W
C118	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	JR7	1-216-295-00	METAL GLAZE	0 5% 1/10W
C119	1-163-369-11	CERAMIC CHIP 47PF	5% 50V	JR8	1-216-295-00	METAL GLAZE	0 5% 1/10W
C122	1-163-093-00	CERAMIC CHIP 10PF	5% 50V	JR9	1-216-296-00	METAL GLAZE	0 5% 1/8W
C130	1-216-295-00	METAL GLAZE 0	5% 1/10W	JR10	1-216-296-00	METAL GLAZE	0 5% 1/8W
C131	1-163-224-11	CERAMIC CHIP 7PF	0.25PF 50V	JR11	1-216-296-00	METAL GLAZE	0 5% 1/8W
C133	1-124-477-11	ELECT 47MF	20% 16V	JR12	1-216-295-00	METAL GLAZE	0 5% 1/10W
C161	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	JR13	1-163-093-00	CERAMIC CHIP 10PF	5% 50V
C162	1-164-222-11	CERAMIC CHIP 0.22MF	25V	JR14	1-216-296-00	METAL GLAZE	0 5% 1/8W
C163	1-164-346-11	CERAMIC CHIP 1MF	16V	JR16	1-216-295-00	METAL GLAZE	0 5% 1/10W
C164	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V	JR18	1-216-295-00	METAL GLAZE	0 5% 1/10W
C165	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	JR19	1-216-296-00	METAL GLAZE	0 5% 1/8W
C166	1-124-477-11	ELECT 47MF	20% 16V	JR20	1-216-296-00	METAL GLAZE	0 5% 1/8W
C167	1-163-213-00	CERAMIC CHIP 0.0022MF	5% 50V	JR21	1-216-296-00	METAL GLAZE	0 5% 1/8W
C168	1-164-346-11	CERAMIC CHIP 1MF	16V	JR23	1-216-296-00	METAL GLAZE	0 5% 1/8W
C170	1-124-477-11	ELECT 47MF	20% 16V	JR24	1-216-296-00	METAL GLAZE	0 5% 1/8W
C171	1-124-477-11	ELECT 47MF	20% 16V	JR25	1-216-296-00	METAL GLAZE	0 5% 1/8W
<FILTER>				JR29	1-216-296-00	METAL GLAZE	0 5% 1/8W
CD1	1-579-657-21	DISCRIMINATOR, CERAMIC		JR30	1-216-295-00	METAL GLAZE	0 5% 1/10W
CF1	1-567-569-11	FILTER, CERAMIC		JR33	1-216-295-00	METAL GLAZE	0 5% 1/10W
SWF1	1-579-659-11	FILTER, SAWTOOTH WAVE		JR38	1-216-296-00	METAL GLAZE	0 5% 1/8W
<CONNECTOR>				JR39	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN1	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR40	1-216-296-00	METAL GLAZE	0 5% 1/8W
CN2	1-750-173-11	PIN, CONNECTOR (PC BOARD) 10P		JR41	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR42	1-216-295-00	METAL GLAZE	0 5% 1/10W
				JR101	1-216-295-00	METAL GLAZE	0 5% 1/10W
				R101	1-216-075-00	METAL GLAZE	12K 5% 1/10W
				R102	1-216-045-00	METAL GLAZE	680 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R103	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C011	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R104	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	C012	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R105	1-216-043-00	METAL GLAZE	560 5% 1/10W	C014	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R106	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C016	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R107	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C018	1-164-505-11	CERAMIC CHIP 2.2MF	16V
R108	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C019	1-124-477-11	ELECT 47MF	20% 16V
R110	1-216-041-00	METAL GLAZE	470 5% 1/10W	C032	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R112	1-216-045-00	METAL GLAZE	680 5% 1/10W	C035	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
R113	1-216-031-00	METAL GLAZE	180 5% 1/10W	C036	1-164-005-11	CERAMIC CHIP 0.47MF	25V
R114	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C037	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R115	1-216-031-00	METAL GLAZE	180 5% 1/10W	C501	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V
R116	1-216-101-00	METAL GLAZE	150K 5% 1/10W	C502	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R117	1-216-097-00	METAL GLAZE	100K 5% 1/10W	C503	1-104-825-91	FILM 0.0047MF	5% 50V
R118	1-216-117-00	METAL GLAZE	680K 5% 1/10W	C504	1-130-831-21	MYLAR 0.56MF	10% 63V
R119	1-216-240-00	METAL GLAZE	56K 5% 1/8W	C505	1-124-925-11	ELECT 2.2MF	20% 50V
R120	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C506	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
R121	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	C507	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
R122	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C508	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R123	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C509	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R130	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C510	1-124-925-11	ELECT 2.2MF	20% 50V
R131	1-216-025-00	METAL GLAZE	100 5% 1/10W	C511	1-106-375-12	MYLAR 0.022MF	10% 250V
R132	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	C512	1-126-103-11	ELECT 470MF	20% 16V
R133	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	C514	1-163-105-00	CERAMIC CHIP 33PF	5% 50V
R134	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C519	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R135	1-216-198-00	METAL GLAZE	1K 5% 1/8W	C522	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R153	1-216-025-00	METAL GLAZE	100 5% 1/10W	C523	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R159	1-216-107-00	METAL GLAZE	270K 5% 1/10W	C531	1-164-493-11	CERAMIC CHIP 0.047MF	10% 50V
R160	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C532	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
R161	1-218-755-11	METAL CHIP	130K 0.50% 1/10W	C538	1-164-489-11	CERAMIC CHIP 0.22MF	10% 16V
R162	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C541	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
R163	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C542	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
R164	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C543	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R165	1-216-081-00	METAL GLAZE	22K 5% 1/10W	C544	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R166	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C546	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R167	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C547	1-163-020-00	CERAMIC CHIP 0.0082MF	10% 50V
R168	1-216-113-00	METAL GLAZE	470K 5% 1/10W	C549	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V
R169	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C550	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R175	1-216-083-00	METAL GLAZE	27K 5% 1/10W	C552	1-163-037-11	CERAMIC CHIP 0.022MF	10% 25V
R176	1-216-075-00	METAL GLAZE	12K 5% 1/10W	C559	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R177	1-216-095-00	METAL GLAZE	82K 5% 1/10W	C560	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
R178	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C562	1-216-295-00	METAL GLAZE 0	5% 1/10W
R179	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C563	1-163-031-11	CERAMIC CHIP 0.01MF	50V
R181	1-216-037-00	METAL GLAZE	330 5% 1/10W	C564	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<VARIABLE RESISTOR>				C565	1-163-031-11	CERAMIC CHIP 0.01MF	50V
RV1	1-241-121-11	RES, ADJ, CARBON 4.7K		C566	1-163-031-11	CERAMIC CHIP 0.01MF	50V
<TRANSFORMER>				C567	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
T4	1-416-017-21	COIL		C568	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
T5	1-416-018-21	COIL		C569	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
*****				C570	1-162-568-11	CERAMIC CHIP 0.33MF	10% 16V
*A-1635-007-A M BOARD, COMPLETE				<FILTER>			
*****				CD001	1-577-364-11	VIBRATOR, CERAMIC	
<CAPACITOR>				<CONNECTOR>			
C001	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CN1406*1-568-880-51	PIN, CONNECTOR 5P		
C003	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CN1413 1-695-301-11	CONNECTOR, BOARD TO BOARD 40P		
C007	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CN1426*1-568-881-51	PIN, CONNECTOR 6P		
C008	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CN1432*1-568-882-51	PIN, CONNECTOR 7P		
C010	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	CN1441*1-564-511-31	PLUG, CONNECTOR 8P		



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<DIODE>				R034	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D001	8-719-027-82	DIODE MA3039H-TX		R035	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
D501	8-719-800-76	DIODE 1SS226		R038	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D503	8-719-401-31	DIODE MA3047L-TX		R049	1-216-049-00	METAL GLAZE 1K 5%	1/10W
D504	8-719-400-18	DIODE MA152WK		R050	1-216-073-00	METAL GLAZE 10K 5%	1/10W
D510	8-719-105-91	DIODE RD5.6M-B2		R051	1-216-081-00	METAL GLAZE 22K 5%	1/10W
<IC>				R052	1-216-073-00	METAL GLAZE 10K 5%	1/10W
IC001	8-759-072-93	IC SDA30C162		R053	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
	*1-540-123-11	SOCKET, IC 68P; IC001		R054	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC003	8-759-173-65	IC TMS27PC512-15NLAE201		R055	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC501	8-759-513-48	IC TDA2595/V9		R067	1-216-043-00	METAL GLAZE 560 5%	1/10W
IC561	8-752-347-92	IC CXD2018Q		R068	1-216-043-00	METAL GLAZE 560 5%	1/10W
IC562	8-759-998-98	IC LM358D		R069	1-216-037-00	METAL GLAZE 330 5%	1/10W
IC563	8-759-081-30	IC MC78L05ACPRP		R070	1-216-037-00	METAL GLAZE 330 5%	1/10W
<COIL>				R501	1-216-047-00	METAL GLAZE 820 5%	1/10W
L001	1-408-421-00	INDUCTOR 100UH		R502	1-216-097-00	METAL GLAZE 100K 5%	1/10W
L501	1-410-119-11	INDUCTOR 1MMH		R503	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
L561	1-408-409-00	INDUCTOR 10UH		R504	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
L562	1-408-409-00	INDUCTOR 10UH		R505	1-216-075-00	METAL GLAZE 12K 5%	1/10W
L563	1-408-947-00	INDUCTOR 2.2MMH		R506	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<TRANSISTOR>				R507	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q002	8-729-216-22	TRANSISTOR 2SA1162-G		R509	1-216-039-00	METAL GLAZE 390 5%	1/10W
Q003	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R510	1-216-073-00	METAL GLAZE 10K 5%	1/10W
Q501	8-729-901-01	TRANSISTOR DTC144EK		R511	1-216-097-00	METAL GLAZE 100K 5%	1/10W
Q502	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R512	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q503	8-729-901-01	TRANSISTOR DTC144EK		R513	1-216-230-00	METAL GLAZE 22K 5%	1/8W
Q508	8-729-901-01	TRANSISTOR DTC144EK		R514	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
Q509	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R515	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q564	8-729-216-22	TRANSISTOR 2SA1162-G		R516	1-216-039-00	METAL GLAZE 390 5%	1/10W
Q565	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R517	1-216-039-00	METAL GLAZE 390 5%	1/10W
Q566	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R		R518	1-216-075-00	METAL GLAZE 12K 5%	1/10W
Q567	8-729-901-01	TRANSISTOR DTC144EK		R519	1-216-033-00	METAL GLAZE 220 5%	1/10W
<RESISTOR>				R520	1-216-093-00	METAL GLAZE 68K 5%	1/10W
JR540	1-216-295-00	METAL GLAZE 0 5%	1/10W	R521	1-216-053-00	METAL GLAZE 1.5K 5%	1/10W
R001	1-216-025-00	METAL GLAZE 100 5%	1/10W	R522	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R002	1-216-025-00	METAL GLAZE 100 5%	1/10W	R523	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
R003	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R524	1-216-063-00	METAL GLAZE 3.9K 5%	1/10W
R006	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R525	1-216-093-00	METAL GLAZE 68K 5%	1/10W
R007	1-216-073-00	METAL GLAZE 10K 5%	1/10W	R526	1-216-073-00	METAL GLAZE 10K 5%	1/10W
R008	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R527	1-216-689-11	METAL GLAZE 39K 5%	1/10W
R010	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R528	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R011	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R529	1-216-696-11	METAL CHIP 75K 0.50%	1/10W
R012	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R531	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R014	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R532	1-216-671-11	METAL CHIP 6.8K 0.50%	1/10W
R015	1-216-296-00	METAL GLAZE 0 5%	1/8W	R533	1-216-105-00	METAL GLAZE 220K 5%	1/10W
R016	1-216-045-00	METAL GLAZE 680 5%	1/10W	R535	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R017	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R536	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R018	1-216-041-00	METAL GLAZE 470 5%	1/10W	R538	1-216-025-00	METAL GLAZE 100 5%	1/10W
R020	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R539	1-216-657-11	METAL CHIP 1.8K 0.50%	1/10W
R021	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W	R541	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R025	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R542	1-216-025-00	METAL GLAZE 100 5%	1/10W
R026	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R544	1-216-085-00	METAL GLAZE 33K 5%	1/10W
R028	1-216-075-00	METAL GLAZE 12K 5%	1/10W	R545	1-216-033-00	METAL GLAZE 220 5%	1/10W
R030	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R546	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W
R032	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R547	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R033	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R551	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R552	1-216-097-00	METAL GLAZE 100K 5%	1/10W
				R553	1-216-085-00	METAL GLAZE 33K 5%	1/10W
				R559	1-216-049-00	METAL GLAZE 1K 5%	1/10W
				R560	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R564	1-216-091-00	METAL GLAZE 56K 5%	1/10W
				R565	1-216-065-00	METAL GLAZE 4.7K 5%	1/10W
				R566	1-216-073-00	METAL GLAZE 10K 5%	1/10W

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R567	1-216-085-00	METAL GLAZE 33K 5%	1/10W	Q705	8-729-906-70	TRANSISTOR BF871	
R568	1-216-109-00	METAL GLAZE 330K 5%	1/10W	Q706	8-729-906-70	TRANSISTOR BF871	
R570	1-216-049-00	METAL GLAZE 1K 5%	1/10W	Q707	8-729-200-17	TRANSISTOR 2SA1091-0	
<VARIABLE RESISTOR>				Q708	8-729-200-17	TRANSISTOR 2SA1091-0	
RV506	1-241-766-11	RES, ADJ, CERMET 47K		Q709	8-729-200-17	TRANSISTOR 2SA1091-0	
*****				Q710	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
*A-1638-027-A	C BOARD, COMPLETE			Q711	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
*****				Q712	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R	
<CAPACITOR>				Q713	8-729-216-22	TRANSISTOR 2SA1162-G	
C701	1-162-114-00	CERAMIC 0.0047MF	2KV	Q714	8-729-255-12	TRANSISTOR 2SC2551-0	
C703	1-123-946-00	ELECT 4.7MF	20% 250V	<RESISTOR>			
C704	1-130-202-00	FILM 0.022MF	5% 400V	JR701	1-216-296-00	METAL GLAZE 0 5%	1/8W
C705	1-162-116-00	CERAMIC 680PF	10% 2KV	JR703	1-216-296-00	METAL GLAZE 0 5%	1/8W
C708	1-163-197-00	CERAMIC CHIP 470PF	10% 50V	R701	1-202-848-00	SOLID 680K 10%	1/2W
C709	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	R702	1-202-838-00	SOLID 100K 20%	1/2W
C710	1-163-005-11	CERAMIC CHIP 470PF	10% 50V	R703	1-202-838-00	SOLID 100K 20%	1/2W
C711	1-101-880-00	CERAMIC 47PF	5% 50V	R704	1-202-842-11	SOLID 220K 10%	1/2W
C712	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R705	1-216-398-11	METAL OXIDE 5.6 5%	3W F
C713	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R706	1-216-398-11	METAL OXIDE 5.6 5%	3W F
C714	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	R710	1-215-899-11	METAL OXIDE 15K 5%	2W F
C716	1-124-122-11	ELECT 100MF	20% 50V	R711	1-202-820-11	SOLID 1.5K 20%	1/2W
<CONNECTOR>				R712	1-215-899-11	METAL OXIDE 15K 5%	2W F
CN0002*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P			R713	1-202-820-11	SOLID 1.5K 20%	1/2W
CN0403*1-564-511-11	PLUG, CONNECTOR 8P			R714	1-215-899-11	METAL OXIDE 15K 5%	2W F
CN0421*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P			R715	1-202-820-11	SOLID 1.5K 20%	1/2W
<DIODE>				R716	1-247-700-11	CARBON 100 5%	1/4W F
D701	8-719-911-19	DIODE 1SS119		R717	1-249-405-11	CARBON 100 5%	1/4W F
D702	8-719-911-19	DIODE 1SS119		R718	1-247-700-11	CARBON 100 5%	1/4W F
D703	8-719-911-19	DIODE 1SS119		R720	1-249-417-11	CARBON 1K 5%	1/4W F
D704	8-719-911-19	DIODE 1SS119		R722	1-247-713-11	CARBON 1K 5%	1/4W F
D705	8-719-911-19	DIODE 1SS119		R724	1-249-417-11	CARBON 1K 5%	1/4W F
D706	8-719-911-19	DIODE 1SS119		R725	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D707	8-719-911-19	DIODE 1SS119		R726	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D708	8-719-911-19	DIODE 1SS119		R727	1-216-067-00	METAL GLAZE 5.6K 5%	1/10W
D709	8-719-911-19	DIODE 1SS119		R728	1-216-039-00	METAL GLAZE 390 5%	1/10W
D710	8-719-911-19	DIODE 1SS119		R729	1-216-039-00	METAL GLAZE 390 5%	1/10W
D713	8-719-908-03	DIODE GP08D		R730	1-216-039-00	METAL GLAZE 390 5%	1/10W
<JACK>				R731	1-216-017-00	METAL GLAZE 47 5%	1/10W
J701 Δ	1-526-990-13	SOCKET, PICTURE TUBE		R732	1-216-017-00	METAL GLAZE 47 5%	1/10W
<COIL>				R733	1-216-017-00	METAL GLAZE 47 5%	1/10W
L701	1-410-667-31	INDUCTOR 22UH		R734	1-202-549-00	SOLID 100 20%	1/2W
L703	1-408-609-41	INDUCTOR 33UH		R735	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L705	1-408-609-41	INDUCTOR 33UH		R738	1-216-025-00	METAL GLAZE 100 5%	1/10W
L707	1-408-609-41	INDUCTOR 33UH		R739	1-216-025-00	METAL GLAZE 100 5%	1/10W
<TRANSISTOR>				R740	1-216-025-00	METAL GLAZE 100 5%	1/10W
Q701	8-729-906-70	TRANSISTOR BF871		R741	1-216-089-00	METAL GLAZE 47K 5%	1/10W
Q702	8-729-906-70	TRANSISTOR BF871		R742	1-216-295-00	METAL GLAZE 0 5%	1/10W
Q703	8-729-906-70	TRANSISTOR BF871		R743	1-249-434-11	CARBON 27K 5%	1/4W
Q704	8-729-906-70	TRANSISTOR BF871		R747	1-216-488-11	METAL OXIDE 18K 5%	3W F
				R749	1-215-926-00	METAL OXIDE 33K 5%	3W F
				R751	1-216-489-11	METAL OXIDE 27K 5%	3W F
				R753	1-216-073-00	METAL GLAZE 10K 5%	1/10W
				R755	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
				R756	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
				R757	1-216-069-00	METAL GLAZE 6.8K 5%	1/10W
				R758	1-249-419-11	CARBON 1.5K 5%	1/4W
				R759	1-249-419-11	CARBON 1.5K 5%	1/4W
				R760	1-249-419-11	CARBON 1.5K 5%	1/4W



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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<VARIABLE RESISTOR>							
RV701	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M		C834	1-137-513-11	FILM 0.62MF 5%	200V
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M		C835	1-124-480-11	ELECT 470MF 20%	25V
*****				C836	1-102-228-00	CERAMIC 470PF 10%	500V
*A-1642-075-A	D BOARD, COMPLETE	*****		C837	1-129-702-00	FILM 0.001MF 10%	400V
4-200-001-01	HOLDER, IC			C838	1-129-725-00	FILM 0.082MF 10%	250V
4-201-023-01	SPACER, INSULATING			C839	1-123-950-00	ELECT 47MF 20%	250V
*4-368-683-01	SPRING			C840	1-124-480-11	ELECT 470MF 20%	25V
*4-389-343-01	SPRING			C841	1-102-228-00	CERAMIC 470PF 10%	500V
<CAPACITOR>				C842	1-104-722-91	FILM 0.068MF 10%	250V
C601	1-130-202-00	FILM 0.022MF 10%	400V	C846	1-123-024-21	ELECT 33MF	160V
C603 Δ	1-164-246-61	CERAMIC 0.0022MF 20%	400V	C851	1-136-559-11	MYLAR 0.0047MF 10%	400V
C605	1-124-910-11	ELECT 47MF 20%	50V	C852	1-164-299-11	CERAMIC CHIP 0.22MF 10%	25V
C608	1-124-903-11	ELECT 1MF 20%	50V	C853	1-124-910-11	ELECT 47MF 20%	50V
C611	1-102-002-00	CERAMIC 680PF 10%	500V	C854 Δ	1-162-115-91	CERAMIC 330PF 10%	2KV
C612	1-137-437-11	FILM 0.0056MF 5%	50V	C857	1-124-902-00	ELECT 0.47MF 20%	50V
C613	1-129-722-00	FILM 0.047MF 10%	630V	C861	1-130-777-00	FILM 0.1MF 5%	63V
C614	1-102-030-00	CERAMIC 330PF 10%	500V	C863	1-106-383-00	MYLAR 0.047MF 10%	100V
C615	1-126-943-11	ELECT 2200MF 20%	25V	C866	1-129-702-00	FILM 0.001MF 10%	400V
C616	1-102-030-00	CERAMIC 330PF 10%	500V	C868	1-137-371-11	FILM 0.015MF 5%	50V
C617	1-162-116-00	CERAMIC 680PF 10%	2KV	C869	1-136-165-00	FILM 0.1MF 5%	50V
C618	1-162-134-11	CERAMIC 470PF 10%	2KV	C870	1-137-364-11	FILM 0.001MF 5%	50V
C619	1-102-030-00	CERAMIC 330PF 10%	500V	C871	1-130-651-00	FILM 0.001MF 2%	100V
C620	1-164-299-11	CERAMIC CHIP 0.22MF 10%	25V	C872	1-124-907-11	ELECT 10MF 20%	50V
C621	1-124-347-00	ELECT 100MF 20%	160V	C873	1-137-364-11	FILM 0.001MF 5%	50V
C622	1-128-320-11	ELECT 2200MF 20%	16V	C875	1-102-038-00	CERAMIC 0.001MF	500V
C623	1-102-030-00	CERAMIC 330PF 10%	500V	C877	1-124-902-00	ELECT 0.47MF 20%	50V
C624	1-126-800-51	ELECT 2200MF 20%	35V	C878	1-164-232-11	CERAMIC CHIP 0.01MF 10%	50V
C625	1-126-800-51	ELECT 2200MF 20%	35V	C879	1-102-228-00	CERAMIC 470PF 10%	500V
C627	1-137-365-11	FILM 0.0015MF 5%	50V	C1501	1-163-141-00	CERAMIC CHIP 0.001MF 5%	50V
C628	1-124-910-11	ELECT 47MF 20%	50V	C1502	1-124-903-11	ELECT 1MF 20%	50V
C629	1-124-907-11	ELECT 10MF 20%	50V	C1503	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C631	1-163-075-00	CERAMIC CHIP 0.047MF 10%	25V	C1504	1-124-480-11	ELECT 470MF 20%	25V
C632	1-137-372-11	FILM 0.022MF 5%	50V	C1505	1-124-911-11	ELECT 220MF 20%	50V
C633	1-163-078-11	CERAMIC CHIP 0.033MF 10%	25V	C1506	1-136-202-11	FILM 0.33MF 5%	63V
C636	1-130-777-00	FILM 0.1MF 5%	63V	C1507	1-106-228-00	MYLAR 0.22MF 10%	100V
C640	1-124-916-11	ELECT 22MF 20%	50V	C1508	1-124-480-11	ELECT 470MF 20%	25V
C801	1-137-116-11	FILM 1MF 5%	200V	C1509	1-124-767-00	ELECT 2.2MF 20%	50V
C803	1-164-695-11	CERAMIC CHIP 0.0022MF 5%	50V	C1511	1-124-907-11	ELECT 10MF 20%	50V
C804	1-106-383-00	MYLAR 0.047MF 10%	100V	C1512	1-124-006-11	ELECT 10MF 20%	25V
C805	1-124-902-00	ELECT 0.47MF 20%	50V	C1514	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C806	1-124-907-11	ELECT 10MF 20%	50V	C1515	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C808	1-162-114-00	CERAMIC 0.0047MF 10%	2KV	<CONNECTOR>			
C809	1-124-808-51	ELECT 10MF 20%	200V	CN0004*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P		
C810	1-163-001-11	CERAMIC CHIP 220PF 10%	50V	CN0009 1-568-878-51	PIN, CONNECTOR 3P		
C812	1-162-318-11	CERAMIC 0.001MF 10%	500V	CN0504*1-568-882-51	PIN, CONNECTOR 7P		
C813	1-108-704-11	MYLAR 0.1MF 10%	200V	CN0505*1-568-880-51	PIN, CONNECTOR 5P		
C815	1-162-117-00	CERAMIC 100PF 10%	500V	CN0506*1-568-880-51	PIN, CONNECTOR 5P		
C819	1-126-103-11	ELECT 470MF 20%	16V	CN0519*1-568-878-51	PIN, CONNECTOR 3P		
C821 Δ	1-137-514-11	FILM 0.021MF 2%	2KV	CN0521*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		
C822 Δ	1-162-116-91	CERAMIC 680PF 10%	2KV	CN0524*1-568-878-51	PIN, CONNECTOR 3P		
C823	1-124-902-00	ELECT 0.47MF 20%	50V	CN0525*1-695-294-11	PIN, CONNECTOR (PC BOARD) 6P		
C824	1-137-368-11	FILM 0.0047MF 5%	50V	CN0526*1-568-881-51	PIN, CONNECTOR 6P		
C825 Δ	1-162-116-91	CERAMIC 680PF 10%	2KV	CN0529*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P		
C826 Δ	1-136-895-51	FILM 0.068MF 5%	630V	CN5521*1-568-878-51	PIN, CONNECTOR 3P		
C827	1-106-383-00	MYLAR 0.047MF 10%	100V	DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P	
C828	1-136-557-11	FILM 0.0033MF 10%	400V	<DIODE>			
C831	1-123-932-00	ELECT 4.7MF 20%	160V	D602	8-719-300-33	DIODE RU-3AM	
C832	1-124-910-11	ELECT 47MF 20%	50V	D606	8-719-300-33	DIODE RU-3AM	
C833	1-137-118-11	FILM 1.8MF 5%	200V	D608	8-719-300-33	DIODE RU-3AM	
				D610	1-806-660-11	DIODE ESAB85-009	

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D

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REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
R613	1-216-260-00	METAL GLAZE	390K 5% 1/8W	R851	1-247-743-11	CARBON	220 5% 1/2W F
R614	1-216-487-11	METAL OXIDE	12K 5% 3W F	R852	1-249-389-11	CARBON	4.7 5% 1/4W F
R615	1-216-487-11	METAL OXIDE	12K 5% 3W F	R853	1-249-443-11	CARBON	0.47 5% 1/4W F
R617	1-216-033-00	METAL GLAZE	220 5% 1/10W	R854	1-249-443-11	CARBON	0.47 5% 1/4W F
R618	1-216-449-11	METAL OXIDE	56 5% 2W F	R855	1-202-818-00	SOLID	1K 10% 1/2W
R620	1-216-045-00	METAL GLAZE	680 5% 1/10W	R858	1-249-425-11	CARBON	4.7K 5% 1/4W
R621	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W	R864	1-216-686-11	METAL CHIP	30K 0.50% 1/10W
R622	1-216-041-00	METAL GLAZE	470 5% 1/10W	R865	1-215-493-00	METAL	1M 1% 1/4W
R623	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R866	1-216-687-11	METAL CHIP	33K 0.50% 1/10W
R625	1-216-449-11	METAL OXIDE	56 5% 2W F	R867	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R626	1-216-635-11	METAL CHIP	220 0.50% 1/10W	R868	1-249-435-11	CARBON	33K 5% 1/4W
R627	1-249-398-11	CARBON	27 5% 1/4W F	R871	1-249-493-11	CARBON	56K 5% 1/2W
R629	1-215-464-00	METAL	62K 1% 1/4W	R872	1-249-393-11	CARBON	10 5% 1/4W F
R630	1-249-421-11	CARBON	2.2K 5% 1/4W	R873	1-249-393-11	CARBON	10 5% 1/4W F
R631	1-216-397-11	METAL OXIDE	4.7 5% 3W F	R876	1-249-421-11	CARBON	2.2K 5% 1/4W F
R633	1-249-415-11	CARBON	680 5% 1/4W	R877	1-215-880-00	METAL OXIDE	10 5% 2W F
R634	1-215-477-00	METAL	220K 1% 1/4W	R878	1-215-883-11	METAL OXIDE	33 5% 2W F
R635	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R884	1-216-693-11	METAL CHIP	56K 0.50% 1/10W
R636	1-216-452-11	METAL OXIDE	180 5% 2W F	R889	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R637	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R893	1-215-878-00	METAL OXIDE	33K 5% 1W F
R638	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R894	1-216-264-00	METAL GLAZE	560K 5% 1/8W
R639	1-216-089-00	METAL GLAZE	47K 5% 1/10W	R895	1-216-079-00	METAL GLAZE	18K 5% 1/10W
R640	1-207-905-00	WIREWOUND	0.27 10% 2W F	R897	1-216-089-00	METAL GLAZE	47K 5% 1/10W
R645	1-215-464-00	METAL	62K 1% 1/4W	R898	1-216-262-00	METAL GLAZE	470K 5% 1/8W
R646	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1501	1-216-673-11	METAL CHIP	8.2K 0.50% 1/10W
R647	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R1502	1-216-665-11	METAL CHIP	3.9K 0.50% 1/10W
R651	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1503	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R801	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R1504	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R802	1-216-295-00	METAL GLAZE	0 5% 1/10W	R1505	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R804	1-217-778-11	FUSIBLE	1K 5% 1W F	R1506	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R805	1-216-677-11	METAL CHIP	12K 0.50% 1/10W	R1508	1-216-684-11	METAL CHIP	24K 0.50% 1/10W
R806	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1509	1-216-091-00	METAL GLAZE	56K 5% 1/10W
R807	1-216-037-00	METAL GLAZE	330 5% 1/10W	R1510	1-249-382-11	CARBON	1.2 5% 1/4W F
R808	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1511	1-215-887-00	METAL OXIDE	150 5% 2W F
R809	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R1512	1-216-371-00	METAL OXIDE	1.5 5% 2W F
R811	1-216-033-00	METAL GLAZE	220 5% 1/10W	R1514	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R812	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1551	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R813	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	<VARIABLE RESISTOR>			
R814	1-216-091-00	METAL GLAZE	56K 5% 1/10W	RV601	1-241-628-11	RES, ADJ, CARBON 2.2K	
R815	1-216-081-00	METAL GLAZE	22K 5% 1/10W	<TRANSFORMER>			
R819	1-247-755-11	CARBON	1.8K 5% 1/2W F	T601	Δ 1-450-997-11	S.R.T (SMT7)	
R820	1-216-097-00	METAL GLAZE	100K 5% 1/10W	T801	Δ 1-453-118-11	TRANSFORMER ASSY, FLYBACK (UX-2600A2)	
R821	1-215-918-00	METAL OXIDE	1.5K 5% 3W F	T803	1-437-090-00	HDT	
R822	1-215-918-00	METAL OXIDE	1.5K 5% 3W F	*****			
R823	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	*A-1645-024-A V BOARD, COMPLETE			
R824	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	*****			
R825	1-216-345-11	METAL OXIDE	0.47 5% 1W F	<CAPACITOR>			
R826	1-216-166-00	METAL GLAZE	47 5% 1/8W	C01	1-124-916-11	ELECT	22MF 20% 50V
R828	1-216-121-00	METAL GLAZE	1M 5% 1/10W	C02	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R829	1-249-429-11	CARBON	10K 5% 1/4W F	C03	1-163-038-00	CERAMIC CHIP	0.1MF 25V
R830	1-216-687-11	METAL CHIP	33K 0.50% 1/10W	C04	1-124-916-11	ELECT	22MF 20% 50V
R832	1-216-089-00	METAL GLAZE	47K 5% 1/10W	C05	1-163-037-11	CERAMIC CHIP	0.022MF 10% 25V
R833	1-216-105-00	METAL GLAZE	220K 5% 1/10W	C06	1-124-120-11	ELECT	220MF 20% 16V
R834	1-216-109-00	METAL GLAZE	330K 5% 1/10W	C07	1-124-903-11	ELECT	1MF 20% 50V
R835	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C08	1-163-097-00	CERAMIC CHIP	15PF 5% 50V
R836	1-216-242-00	METAL GLAZE	68K 5% 1/8W	C09	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V
R837	1-216-695-11	METAL CHIP	68K 0.50% 1/10W				
R838	1-216-091-00	METAL GLAZE	56K 5% 1/10W				
R839	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W				
R841	1-249-397-11	CARBON	22 5% 1/4W F				
R842	1-215-890-11	METAL OXIDE	470 5% 2W F				
R846	1-216-671-11	METAL CHIP	6.8K 0.50% 1/10W				
R847	1-216-699-11	METAL CHIP	100K 0.50% 1/10W				
R849	1-215-908-00	METAL OXIDE	33 5% 3W F				



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
C10	1-163-133-00	CERAMIC CHIP 470PF	5%	50V			
C11	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V			
C12	1-163-127-00	CERAMIC CHIP 270PF	5%	50V			
C13	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
C14	1-163-097-00	CERAMIC CHIP 15PF	5%	50V			
C15	1-163-103-00	CERAMIC CHIP 27PF	5%	50V			
C16	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V			
C17	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V			
C18	1-163-093-00	CERAMIC CHIP 10PF	5%	50V			
C19	1-163-089-00	CERAMIC CHIP 6PF	0.25PF	50V			
C20	1-163-125-00	CERAMIC CHIP 220PF	5%	50V			
C21	1-163-833-00	CERAMIC CHIP 0.068MF		25V			
C22	1-163-117-00	CERAMIC CHIP 100PF	5%	50V			
C23	1-163-210-00	CERAMIC CHIP 0.0016MF	5%	50V			
C24	1-164-505-11	CERAMIC CHIP 2.2MF		16V			
C25	1-164-505-11	CERAMIC CHIP 2.2MF		16V			
C26	1-163-809-11	CERAMIC CHIP 0.047MF	10%	25V			
C28	1-163-137-00	CERAMIC CHIP 680PF	5%	50V			
C30	1-136-171-00	FILM 0.33MF	5%	50V			
C32	1-163-038-00	CERAMIC CHIP 0.1MF		25V			
C33	1-124-910-11	ELECT 47MF	20%	50V			
C34	1-124-907-11	ELECT 10MF	20%	50V			
C35	1-163-243-11	CERAMIC CHIP 47PF	5%	50V			
C36	1-163-239-11	CERAMIC CHIP 33PF	5%	50V			
C37	1-216-295-00	METAL GLAZE 0	5%	1/10W			
C39	1-163-135-00	CERAMIC CHIP 560PF	5%	50V			
C40	1-163-263-11	CERAMIC CHIP 330PF	5%	50V			
C53	1-163-038-00	CERAMIC CHIP 0.1MF		25V			
C54	1-163-038-00	CERAMIC CHIP 0.1MF		25V			
<CONNECTOR>							
CN1737*	1-564-511-11	PLUG, CONNECTOR 8P					
CN1741*	1-564-511-11	PLUG, CONNECTOR 8P					
<TRIMMER>							
CT01	1-141-418-11	CAP, ADJ					
<DIODE>							
D01	8-719-400-18	DIODE MA152WK					
D03	8-719-104-34	DIODE 1S2836					
D04	8-719-104-34	DIODE 1S2836					
D09	8-719-400-18	DIODE MA152WK					
D10	8-719-400-18	DIODE MA152WK					
D11	8-719-400-18	DIODE MA152WK					
D12	8-719-400-18	DIODE MA152WK					
<IC>							
IC01	8-759-166-41	IC SDA5248-2C1					
IC02	8-759-037-64	IC SDA5231-2					
IC03	8-759-035-39	IC MCM514256AP80					
IC04	8-752-353-39	IC CXD1050A-15P					
IC05	8-759-987-16	IC LM393P					
<COIL>							
L01	1-408-411-00	INDUCTOR 15UH					
L02	1-408-414-00	INDUCTOR 27UH					
L03	1-408-417-00	INDUCTOR 47UH					
L04	1-408-413-00	INDUCTOR 22UH					
L05	1-408-409-00	INDUCTOR 10UH					
<TRANSISTOR>							
Q01	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q03	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q04	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q06	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q07	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q08	8-729-216-22	TRANSISTOR 2SA1162-G					
Q09	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q10	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q11	8-729-901-81	TRANSISTOR 2SC2412K-T-146-R					
Q12	8-729-901-00	TRANSISTOR DTC124EX					
<RESISTOR>							
JR02	1-216-295-00	METAL GLAZE 0	5%	1/10W			
R01	1-216-025-00	METAL GLAZE 100	5%	1/10W			
R02	1-216-025-00	METAL GLAZE 100	5%	1/10W			
R03	1-216-055-00	METAL GLAZE 1.8K	5%	1/10W			
R04	1-216-049-00	METAL GLAZE 1K	5%	1/10W			
R05	1-216-041-00	METAL GLAZE 470	5%	1/10W			
R06	1-216-029-00	METAL GLAZE 150	5%	1/10W			
R07	1-216-041-00	METAL GLAZE 470	5%	1/10W			
R08	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W			
R09	1-216-091-00	METAL GLAZE 56K	5%	1/10W			
R10	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R11	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R12	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R13	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W			
R15	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W			
R16	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R17	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R20	1-216-049-00	METAL GLAZE 1K	5%	1/10W			
R21	1-216-049-00	METAL GLAZE 1K	5%	1/10W			
R22	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R23	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W			
R24	1-216-091-00	METAL GLAZE 56K	5%	1/10W			
R25	1-216-065-00	METAL GLAZE 4.7K	5%	1/10W			
R26	1-216-081-00	METAL GLAZE 22K	5%	1/10W			
R27	1-216-043-00	METAL GLAZE 560	5%	1/10W			
R28	1-216-043-00	METAL GLAZE 560	5%	1/10W			
R29	1-216-043-00	METAL GLAZE 560	5%	1/10W			
R30	1-216-037-00	METAL GLAZE 330	5%	1/10W			
R31	1-216-061-00	METAL GLAZE 3.3K	5%	1/10W			
R32	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
R33	1-216-017-00	METAL GLAZE 47	5%	1/10W			
R34	1-216-081-00	METAL GLAZE 22K	5%	1/10W			
R35	1-216-081-00	METAL GLAZE 22K	5%	1/10W			
R36	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R37	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R38	1-218-773-11	METAL CHIP 750K	0.50%	1/10W			
R39	1-218-758-11	METAL CHIP 180K	0.50%	1/10W			
R40	1-216-043-00	METAL GLAZE 560	5%	1/10W			
R41	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R42	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R43	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R44	1-216-033-00	METAL GLAZE 220	5%	1/10W			
R46	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
R47	1-216-057-00	METAL GLAZE 2.2K	5%	1/10W			
R48	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W			
R49	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W			
R50	1-216-071-00	METAL GLAZE 8.2K	5%	1/10W			
R54	1-216-073-00	METAL GLAZE 10K	5%	1/10W			
R55	1-216-069-00	METAL GLAZE 6.8K	5%	1/10W			



REF.NO. PART NO. DESCRIPTION

R56 1-216-667-11 METAL CHIP 4.7K 0.50% 1/10W

<CRYSTAL>

X02 1-567-495-11 OSCILLATOR, CRYSTAL

*1-643-004-21 H1 BOARD

<CAPACITOR>

C083 1-163-037-11 CERAMIC CHIP 0.022MF 10% 25V
C087 1-163-037-11 CERAMIC CHIP 0.022MF 10% 25V

<CONNECTOR>

CN1008*1-564-516-11 PLUG, CONNECTOR 13P

<JACK>

J81 1-568-678-11 TERMINAL BLOCK, S 3P
J82 1-562-837-11 JACK

<COIL>

L081 1-408-409-00 INDUCTOR 10UH
L082 1-408-409-00 INDUCTOR 10UH

<RESISTOR>

JR021 1-216-295-00 METAL GLAZE 0 5% 1/10W
R081 1-216-073-00 METAL GLAZE 10K 5% 1/10W
R082 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W
R083 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W
R084 1-216-202-00 METAL GLAZE 1.5K 5% 1/8W
R085 1-216-202-00 METAL GLAZE 1.5K 5% 1/8W

<SWITCH>

S081 1-571-532-21 SWITCH, TACTIL
S082 1-571-532-21 SWITCH, TACTIL
S083 1-571-532-21 SWITCH, TACTIL

*1-642-997-11 H2 BOARD

*4-201-076-01 HOLDER, LED
*4-374-987-01 GUIDE, LIGHT
4-381-686-01 BRACKET (B), LIGHT GUIDE

<CONNECTOR>

CN1132*1-568-882-51 PIN, CONNECTOR 7P

<DIODE>

D092 8-719-948-31 DIODE LD-201VR
D093 8-719-948-31 DIODE LD-201VR
D094 8-719-948-31 DIODE LD-201VR

REMARK

REF.NO. PART NO.

DESCRIPTION

REMARK

<IC>

IC091 8-741-101-75 IC SBX1610-11

<RESISTOR>

R091 1-249-413-11 CARBON 470 5% 1/4W

*A-1651-046-A J BOARD, COMPLETE

<CAPACITOR>

C281 1-126-103-11 ELECT 470MF 20% 16V
C293 1-101-003-00 CERAMIC 0.0047MF 50V
C294 1-101-003-00 CERAMIC 0.0047MF 50V
C295 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V
C296 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V
C906 1-101-004-00 CERAMIC 0.01MF 50V
C910 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V
C911 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V
C912 1-163-133-00 CERAMIC CHIP 470PF 5% 50V
C913 1-163-133-00 CERAMIC CHIP 470PF 5% 50V

C914 1-163-121-00 CERAMIC CHIP 150PF 5% 50V
C915 1-163-121-00 CERAMIC CHIP 150PF 5% 50V
C916 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V
C917 1-163-017-00 CERAMIC CHIP 0.0047MF 10% 50V
C922 1-124-477-11 ELECT 47MF 20% 16V

C923 1-164-346-11 CERAMIC CHIP 1MF 16V
C924 1-124-477-11 ELECT 47MF 20% 16V
C925 1-124-477-11 ELECT 47MF 20% 16V
C926 1-164-346-11 CERAMIC CHIP 1MF 16V
C927 1-124-477-11 ELECT 47MF 20% 16V

C928 1-124-477-11 ELECT 47MF 20% 16V
C929 1-124-477-11 ELECT 47MF 20% 16V
C930 1-124-477-11 ELECT 47MF 20% 16V
C931 1-164-346-11 CERAMIC CHIP 1MF 16V
C932 1-164-346-11 CERAMIC CHIP 1MF 16V

<CONNECTOR>

CN1209 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P
CN1210*1-564-522-11 PLUG, CONNECTOR 7P
CN1240*1-564-519-11 PLUG, CONNECTOR 4P


<DIODE>

D903 8-719-921-69 DIODE MTZJ-9.1
D904 8-719-921-69 DIODE MTZJ-9.1
D907 8-719-921-69 DIODE MTZJ-9.1
D908 8-719-921-69 DIODE MTZJ-9.1
D909 8-719-921-69 DIODE MTZJ-9.1

D910 8-719-921-69 DIODE MTZJ-9.1
D911 8-719-921-69 DIODE MTZJ-9.1
D912 8-719-921-69 DIODE MTZJ-9.1
D913 8-719-921-69 DIODE MTZJ-9.1
D914 8-719-921-69 DIODE MTZJ-9.1

D915 8-719-921-69 DIODE MTZJ-9.1
D916 8-719-921-69 DIODE MTZJ-9.1
D917 8-719-921-69 DIODE MTZJ-9.1
D924 8-719-921-69 DIODE MTZJ-9.1
D925 8-719-921-69 DIODE MTZJ-9.1

D926 8-719-921-69 DIODE MTZJ-9.1

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

J

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REF.NO.	PART NO.	DESCRIPTION	REMARK
	3-756-488-11	MANUAL, INSTRUCTION (GERMAN/ENGLISH/ DUTCH/FRENCH/ITALIAN)	(KV-X2561D)
	3-756-488-91	MANUAL, INSTRUCTION (ENGLISH/GERMAN/ RUSSIAN/POLISH/CZECHOSLOVAK/HUNGARIAN)	(KV-X2561K)
	3-756-488-61	MANUAL, INSTRUCTION (ENGLISH)	(KV-X2562U)
	3-756-488-71	MANUAL, INSTRUCTION (SPANISH)	(KV-X2563E)
	3-756-490-81	MANUAL, INSTRUCTION (DANISH/FINNISH/ SWEDISH/FRENCH/DUTCH/NORWEGIAN/ PORTUGUESE)	(KV-X2563E)
	*4-034-981-01	CUSHION (UPPER) (ASSY)	
	*4-035-035-01	CUSHION (LOWER) (ASSY)	
	*4-035-040-01	INDIVIDUAL CARTON	
	*4-380-340-01	BAG, PROTECTION	
REMOTE COMMANDER			
	1-693-176-11	REMOTE COMMANDER (RM-830)	
	9-903-466-01	COVER, POCKET (FOR RM-830)	